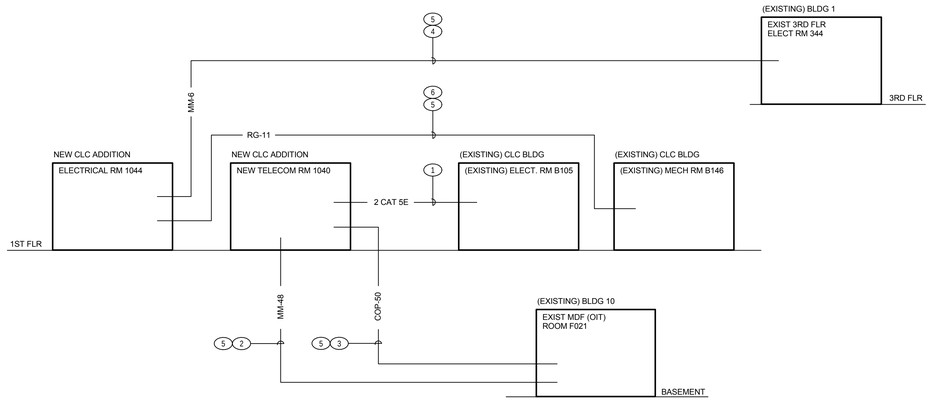
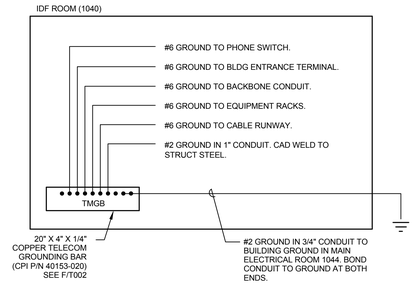


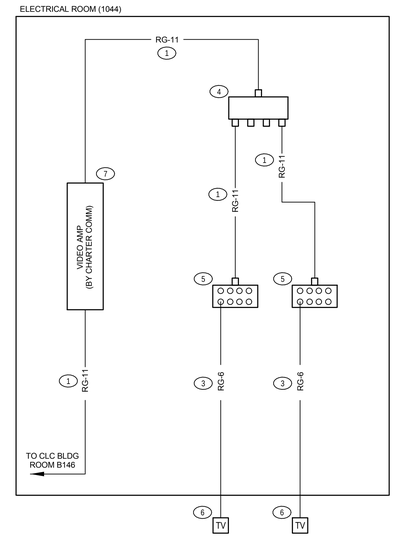
A T003 TELECOM BACKBONE CABLING

N.T.S.



B T003 TELECOM GROUNDING DIAGRAM

N.T.S.



C T003 CATV CABLING DETAILS

N.T.S.

BACKBONE CABLING SHEET NOTES

1. (2) CAT 5E CABLES FOR NURSE CALL SYSTEM (SEE B/T006). PROVIDE QTY (2) PLENUM RATED CAT 5E CABLING FROM FIRST FLOOR NURSE CALL PANEL TO EXISTING NURSE CALL PANELS IN TELECOM ROOM B105. COORDINATE TIE-IN WITH EXISTING EQUIPMENT.
2. 48-STRAND TIGHT BUFFERED RISER RATED LASER OPTIMIZED MULTIMODE FIBER. TERMINATE AT BOTH ENDS IN FIBER TERMINATION CABINETS (SEE RACK ELEVATIONS). FUSION SPLICE FIBER OPTIC CABLE TO FACTORY ASSEMBLED PIGTAILS WITH LC CONNECTORS. PROVIDE QTY OF 6-PORT DUPLEX LC ADAPTER STRIPS TO TERMINATE ALL FIBER IN THE FIBER TERMINATION CABINET. PROVIDE BLANK PLATES OVER UNUSED FIBER TERMINATION CABINET OPENINGS.
3. 50-PAIR CAT 3 COPPER PHONE CABLE. TERMINATE AT BOTH ENDS ON WALL MOUNTED 100-PR BIX TERMINATION BLOCKS.
4. 6-STRAND INDOOR/OUTDOOR RATED MULTIMODE FIBER OPTIC CABLE CABLE FOR OVERHEAD PAGING SYSTEM (SEE A/T006). TERMINATE MULTIMODE CABLE ON 6-PORT WALL MOUNTED ENCLOSURE WITH ST CONNECTORS. COORDINATE TERMINATION LOCATION WITH OVERHEAD PAGING CONTRACTOR. ROUTE CABLING IN BUILDING 1 IN NEW 1" CONDUIT TO EXISTING 3RD FLOOR ELECT ROOM 344. COORDINATE ROUTING WITH EXISTING STRUCTURE AND UTILITIES. CORE DRILL EXISTING WALLS AND FLOORS AND FIRESTOP PENETRATIONS AS NECESSARY FOR ROUTING OF CONDUIT.
5. INSTALL PULLBOXES IN ALL BACKBONE CONDUIT. PULLBOXES SHALL BE INSTALLED EVERY 100'-0" OR EVERY 180 DEGREES OF CONDUIT BEND (WHICHEVER IS THE MORE STRICT PROVISION). PULLBOXES SHALL BE SIZED SO AS NOT TO EXCEED THE MINIMUM BEND RADIUS OF BACKBONE FIBER AND COPPER CABLING.
6. QUAD SHIELDED RISER RATED 75 OHM RG-11 COAX CABLING. TERMINATE AT BOTH ENDS ON 8-WAY CATV SPLITTER (SEE C/T003 FOR ADDITIONAL REQUIREMENTS).

ALTERNATE #4

DELETE BACKBONE CABLING AND TERMINATIONS FOR TELECOM AND NURSE CALL AS PART OF ALT. #4. (CONDUIT, PULLWIRE AND BOXES SHALL BE ROUGHED-IN).

GROUNDING GENERAL NOTES

1. ALL GROUNDING CONDUCTORS SHALL HAVE GREEN INSULATION. ATTACH GROUNDING CONDUCTORS TO TELECOM BUS BARS WITH 2 HOLE LONG BARREL COMPRESSION LUGS.
2. WHERE GROUNDING CONDUCTORS ARE ROUTED IN CONDUIT, INSTALL GROUND BUSHINGS AND BOND THE CONDUIT TO GROUND AT BOTH ENDS.

CATV CABLING SHEET NOTES

1. QUAD SHIELDED RISER RATED 75 OHM RG-11 COAX CABLING.
2. NOT USED
3. QUAD SHIELDED PLENUM RATED RG-6 DROP CABLE TO TV OUTLETS.
4. 4 WAY CATV SPLITTER (BLONDER TONGUE P/N SXRS-4). WALL MOUNT ON PLYWOOD BACKBOARD.
5. 8-WAY CATV SPLITTER (BLONDER TONGUE P/N SXRS-8). WALL MOUNT ON PLYWOOD BACKBOARD.
6. CATV OUTLET (SEE DRAWINGS FOR LOCATION). TERMINATE RG-6 CABLING ON "F" TYPE CONNECTOR.
7. BROADBAND DISTRIBUTION AMPLIFIER (BY CHARTER COMMUNICATIONS).

ALTERNATE #4

DELETE BACKBONE CABLING, SPLITTERS AND TERMINATIONS FOR CATV AS PART OF ALT. #4. (CONDUIT, PULLWIRE AND BOXES SHALL BE ROUGH-IN).

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4	AMENDMENT #4	8/7/2013

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Drawing Title
Telecom Oneline Diagrams

Scale
N.T.S.

Approved Project Director

Project Title
VA RENO HEALTHCARE SYSTEM COMMUNITY LIVING CENTER EXPANSION

Project No. #1017200
VA Contract No. VA261-P-0933

Location
975 KIRMAN AVE., RENO, NEVADA 89502

Date 04/15/2013
Checked KDP
Drawn TPT

VA Project No. 654-317

Building No.

Drawing No. T003

Office of Construction and Facilities Management
Department of Veteran Affairs

BID DOCUMENTS

IP VIDEO SURVEILLANCE CAMERA SYSTEM GENERAL NOTES

1. INSTALL ALL IP VIDEO SURVEILLANCE CAMERA AND TELECOMMUNICATIONS (TELECOM) WORK IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC).
2. THE CONTRACTOR SHALL BE A PANASONIC I-PRO CERTIFIED RESELLER. THE CONTRACTOR SHALL HAVE COMPLETED ALL REQUIRED MANUFACTURER TRAINING AND CERTIFICATION.
3. THE CONTRACTOR SHALL HAVE A MINIMUM OF FIVE (5) YEARS EXPERIENCE IN THE INSTALLATION AND TESTING OF VIDEO SURVEILLANCE SYSTEMS. THE CONTRACTOR SHALL BE A FIRM NORMALLY ENGAGED IN THE DESIGN, INSTALLATION AND MAINTENANCE OF SURVEILLANCE CAMERAS AND SECURITY SYSTEMS. THE CONTRACTOR SHALL PROVIDE DETAILS OF AT LEAST THREE (3) PROJECTS OF SIMILAR SIZE AND SCOPE INVOLVING THE DESIGN, INSTALLATION AND TESTING OF VIDEO SURVEILLANCE SYSTEMS WITHIN THE LAST 3 YEARS. NAMES, ADDRESSES AND TELEPHONE NUMBERS OF REFERENCES FOR THE THREE PROJECTS SHALL BE INCLUDED.
4. INSTALL CEILING, WALL OR ROOF MOUNTED OUTLET BOXES AT ALL CAMERA LOCATIONS AND INSTALL A 1" EMT CONDUIT (UON) FROM THE OUTLET BOX TO AN ACCESSIBLE CLG SPACE. INSTALL J-HOOKS FROM THIS POINT TO THE TELECOM RM.
5. INSTALL CONDUIT FOR ROUTING OF HORIZONTAL TELECOM CABLING ROUTED IN INACCESSIBLE CEILING OR WALL SPACES. CONDUIT SHALL BE SIZED SO AS NOT TO EXCEED 40% FILL RATE.
6. INSTALL IMC CONDUIT AT ALL EXTERIOR LOCATIONS. INSTALL WATER TIGHT FITTINGS, COUPLINGS, LB'S, PULL BOXES, ETC AT ALL EXTERIOR LOCATIONS. SEAL AND MAKE WATER TIGHT ALL PENETRATIONS THROUGH THE BLDG STRUCTURE. PAINT ALL CONDUIT TO MATCH EXISTING SURFACES.
7. INSTALL RACEWAY PERPENDICULAR TO BUILDING GRID LINES UNLESS OTHERWISE NOTED.
8. RACEWAY FOR TELECOM CABLING SHALL BE INSTALLED SO THAT THE FOLLOWING MINIMUM CLEAR DISTANCES ARE MAINTAINED FROM SOURCES OF ELECTRO-MAGNETIC INTERFERENCE (EMI): 6" CLEAR FROM POWER CABLES, 12" CLEAR FROM FLUORESCENT LIGHTING AND 36" CLEAR FROM TRANSFORMERS AND MOTORS.
9. IP VIDEO SURVEILLANCE CAMERAS SHALL MATCH THOSE ALREADY INSTALLED AT THE RENO VA. VIDEO SURVEILLANCE CAMERAS SHALL BE MANUFACTURED BY PANASONIC.
10. FURNISH AND INSTALL NETWORK VIDEO RECORDERS (NVR'S) AND SOFTWARE AS OUTLINED IN THE SPECIFICATIONS TO MATCH EQUIPMENT ALREADY INSTALLED AT THE RENO VA. NVR'S AND SOFTWARE SHALL BE MANUFACTURED BY PANASONIC.
11. AT THE START OF THE PROJECT, PROVIDE A SPREADSHEET TO THE VA IT DEPARTMENT INDICATING THE CAMERA NUMBER AND HARDWARE MAC ADDRESS SO THAT IP ADDRESSES CAN BE PROVIDED FOR THE CAMERAS.
12. FURNISH AND INSTALL IP VIDEO SURVEILLANCE CAMERAS AS SHOWN ON THE DRAWINGS. MOUNT, SECURE, AIM, FOCUS, ADJUST, CONNECT POWER TO, CONNECT TO THE NETWORK, ASSIGN IP ADDRESSES, TEST, COMMISSION AND DEMONSTRATE ALL CAMERAS. VERIFY MOUNTING, ACCESSIBILITY AND CLEARANCE REQUIREMENTS AT EACH IP VIDEO SURVEILLANCE CAMERA LOCATION. MAKE MINOR ADJUSTMENTS TO CAMERA LOCATIONS TO ACCOMMODATE EXISTING CEILING CONDITIONS AND OVERHEAD CLEARANCES ISSUES INCLUDING LIGHTS, HVAC DUCTS, HVAC REGISTERS, SPRINKLER PIPING, SPRINKLER HEADS, SPEAKERS, EXIT SIGNS, ETC.
13. TEST, COMMISSION AND DEMONSTRATE THE IP VIDEO SURVEILLANCE CAMERA AND SOFTWARE SYSTEM AT THE COMPLETION OF THE PROJECT. TESTING AND COMMISSIONING INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: VERIFY THAT ALL CAMERAS HAVE BEEN ASSIGNED A PROPER IP ADDRESS AND ARE COMMUNICATING WITH THE NVR'S, VERIFY THAT ALL CAMERAS ARE CONFIGURED TO RECORD TO THE NVR'S, VERIFY THAT THE FRAME RATES AND IMAGE QUALITY HAVE BEEN SET PER THE SPECIFICATIONS (H.264, 10FPS, 3,048 BIT RATE), VERIFY THAT THE CAMERAS HAVE BEEN AIMED AND FOCUSED PROPERLY, VERIFY THAT THE CAMERAS HAVE BEEN FOCUSED PROPERLY FOR BOTH DAY AND NIGHT USE, VERIFY THAT PRESETS AND TOURS HAVE BEEN PROGRAMMED INTO THE PTZ CAMERAS, VERIFY THAT THE CAMERAS HAVE BEEN NAMED PROPERLY ON THE NETWORK VIDEO RECORDER, VERIFY THAT ALL SOFTWARE AND CAMERAS HAVE BEEN SECURED WITH USER ACCOUNTS AND PASSWORDS AS REQUIRED BY THE RENO VA IT STAFF.
14. PROVIDE (4) HOURS OF TRAINING TO THE OWNER AT THE COMPLETION OF THE PROJECT.

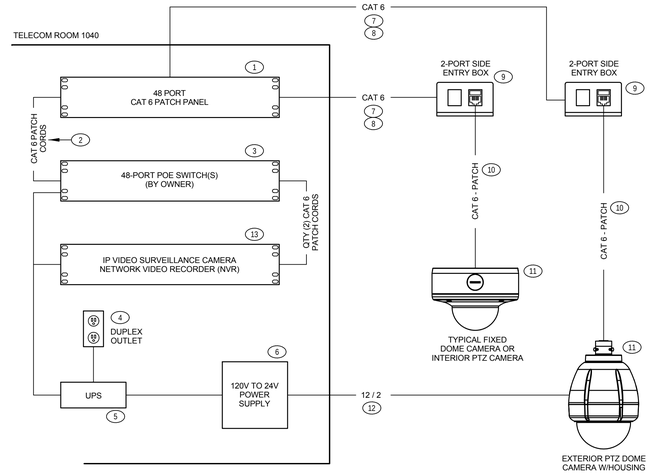
IP VIDEO SURVEILLANCE CAMERA SCHEDULE

CAMERA NO.	CAMERA TYPE	PANASONIC CAMERA MODEL NO.	INTERIOR / EXTERIOR	MOUNTING LOCATION	MOUNT TYPE	MOUNTING SURFACE	PANASONIC MOUNT MODEL NO.	CORNER BRACKET MODEL NO.	MOUNTING DETAIL	CAMERA POWER REQUIREMENTS	NOTES
1	FIXED DOME	WV-SF346	INTERIOR	CEILING	RECESSED	T-BAR	PRCM1	-	A/T005	POE 802.3AF	
2	FIXED DOME	WV-SF346	INTERIOR	CEILING	RECESSED	T-BAR	PRCM1	-	A/T005	POE 802.3AF	
3	FIXED DOME	WV-SF346	INTERIOR	CEILING	RECESSED	T-BAR	PRCM1	-	A/T005	POE 802.3AF	
4	FIXED DOME	WV-SF346	INTERIOR	CEILING	RECESSED	T-BAR	PRCM1	-	A/T005	POE 802.3AF	
5	FIXED DOME	WV-SF346	INTERIOR	CEILING	RECESSED	T-BAR	PRCM1	-	A/T005	POE 802.3AF	
6	FIXED DOME	WV-SF346	INTERIOR	CEILING	RECESSED	T-BAR	PRCM1	-	A/T005	POE 802.3AF	
7	FIXED DOME	WV-SF346	INTERIOR	CEILING	RECESSED	T-BAR	PRCM1	-	A/T005	POE 802.3AF	
8	FIXED DOME	WV-SF346	INTERIOR	CEILING	RECESSED	T-BAR	PRCM1	-	A/T005	POE 802.3AF	
9	PTZ	WV-SW396	EXTERIOR	WALL	GOOSENECK	CONCRETE	PWM20GS	-	E,F/T005	24VAC	VERIFY MOUNTING HEIGHT W/ ARCHITECT
10	PTZ	WV-SW396	EXTERIOR	WALL	GOOSENECK	CONCRETE	PWM20GS	-	E,F/T005	24VAC	VERIFY MOUNTING HEIGHT W/ ARCHITECT
11	PTZ	WV-SW396	EXTERIOR	WALL	GOOSENECK	CONCRETE	PWM20GS	-	E,F/T005	24VAC	VERIFY MOUNTING HEIGHT W/ ARCHITECT
12	FIXED DOME	WV-SF346	INTERIOR	CEILING	RECESSED	T-BAR	PRCM1	-	A/T005	POE 802.3AF	
13	FIXED DOME	WV-SF346	INTERIOR	CEILING	RECESSED	T-BAR	PRCM1	-	A/T005	POE 802.3AF	
14	FIXED DOME	WV-SF346	INTERIOR	CEILING	RECESSED	T-BAR	PRCM1	-	A/T005	POE 802.3AF	
15	FIXED DOME	WV-SF346	INTERIOR	CEILING	RECESSED	T-BAR	PRCM1	-	A/T005	POE 802.3AF	
16	PTZ	WV-SW396	EXTERIOR	WALL	GOOSENECK	CONCRETE	PWM20GS	-	E,F/T005	24VAC	VERIFY MOUNTING HEIGHT W/ ARCHITECT
17	PTZ	WV-SW396	EXTERIOR	WALL	GOOSENECK	CONCRETE	PWM20GS	-	E,F/T005	24VAC	VERIFY MOUNTING HEIGHT W/ ARCHITECT
18	PTZ	WV-SW396	EXTERIOR	CORNER	GOOSENECK	CONCRETE	PWM20GS	PACA2	G,H/T005	24VAC	VERIFY MOUNTING HEIGHT W/ ARCHITECT
19	FIXED DOME	WV-SF346	INTERIOR	CEILING	RECESSED	T-BAR	PRCM1	-	A/T005	POE 802.3AF	
20	PTZ	WV-SW396	EXTERIOR	WALL	GOOSENECK	CONCRETE	PWM20GS	-	E,F/T005	24VAC	VERIFY MOUNTING HEIGHT W/ ARCHITECT
21	FIXED DOME	WV-SF346	INTERIOR	CEILING	RECESSED	T-BAR	PRCM1	-	A/T005	POE 802.3AF	
22	FIXED DOME	WV-SF346	INTERIOR	CEILING	RECESSED	T-BAR	PRCM1	-	A/T005	POE 802.3AF	
23	FIXED DOME	WV-SF346	INTERIOR	CEILING	RECESSED	T-BAR	PRCM1	-	A/T005	POE 802.3AF	
24	PTZ	WV-SW396	EXTERIOR	WALL	GOOSENECK	CONCRETE	PWM20GS	-	E,F/T005	24VAC	VERIFY MOUNTING HEIGHT W/ ARCHITECT
25	PTZ	WV-SW396	EXTERIOR	WALL	GOOSENECK	CONCRETE	PWM20GS	-	E,F/T005	24VAC	VERIFY MOUNTING HEIGHT W/ ARCHITECT
26	FIXED DOME	WV-SF346	INTERIOR	WALL	SURFACE	GYPBOARD	-	-	B,C/T005	POE 802.3AF	
27	FIXED DOME	WV-SF346	INTERIOR	CEILING	RECESSED	T-BAR	PRCM1	-	A/T005	POE 802.3AF	

IP VIDEO SURVEILLANCE NETWORK VIDEO RECORDERS & SOFTWARE SCHEDULE

ITEM	MODEL NO. PANASONIC	QTY	NOTES
NETWORK VIDEO RECORDER	WJ-ND400/10000 2T	1	CONFIGURE 2TB NVR HARD DRIVES RAID 5. RACK MOUNT NVR IN 1ST FLOOR TELECOM ROOM 1040.
WORKSTATION SOFTWARE	WV-ASM200	2	INSTALL SOFTWARE AS DIRECTED BY THE VA.

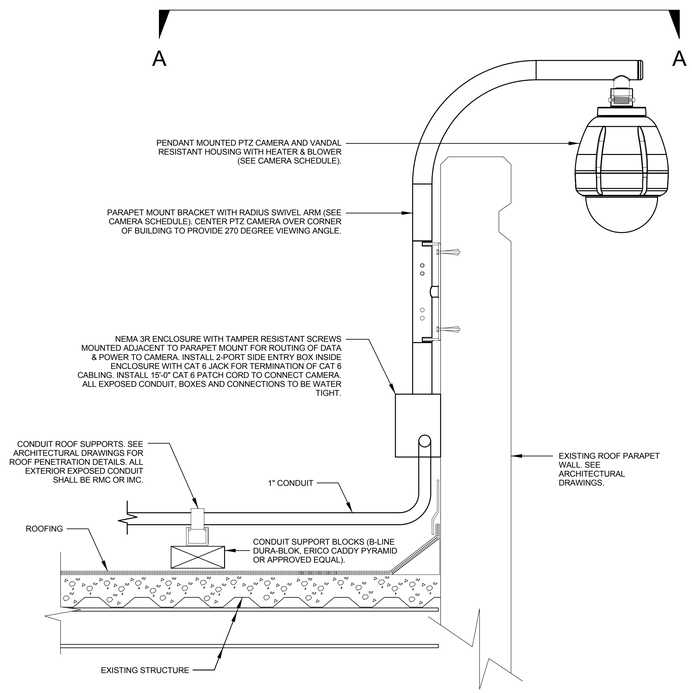
A T004 — CAMERA, VIDEO RECORDER & SOFTWARE SCHEDULE
Scale: N.T.S.



B T004 — IP VIDEO SURVEILLANCE CAMERA ONELINE DIAGRAM
N.T.S.

IP VIDEO SURVEILLANCE CAMERA ONELINE SHEET NOTES

1. NEW 48-PORT CAT 6 PATCH PANEL(S). SEE TELECOM RACK ELEVATIONS FOR PATCH PANEL QTY AND PORT DENSITY. LABEL IP VIDEO SURVEILLANCE CAMERA AND WORKSTATION PORTS ON PATCH PANEL.
2. 4'-0" CAT 6 PATCH CORD TO CROSS CONNECT CAMERAS / WORKSTATIONS TO POE SWITCHES. PROVIDE (1) CAT 6 PATCH CORD FOR EACH CAMERA.
3. 48-PORT POE SWITCH (BY OWNER).
4. 120V DUPLEX OUTLET (SEE ELECTRICAL DRAWINGS).
5. 2RU UPS (SEE C/T213 FOR SIZE AND QTY OF UPS'S).
6. 16-OUTPUT RACK MOUNTED 120VAC TO 24VAC POWER SUPPLY FOR EXTERIOR PTZ CAMERAS (SEE D/T004). SEE RACK SCHEDULE FOR LOCATION AND QTY.
7. FURNISH, INSTALL AND TERMINATE QTY (1) PLENUM RATED CAT 6 CABLE FROM EACH IP SURVEILLANCE CAMERA TO THE TELECOM ROOM SERVING THE FLOOR. ROUTE CABLING IN ACCESSIBLE CEILING SPACES TO THE TELECOM RACK ON J-HOOKS SPACED AT 4'-0" O.C.
8. ALL EXPOSED CAT 6 CABLING THAT CANNOT BE ROUTED CONCEALED ABOVE CEILINGS OR IN WALLS SHALL BE INSTALLED IN IMC CONDUIT. PAINT EXPOSED CONDUIT, PULLBOXES, HANGERS AND SUPPORTS TO MATCH EXISTING SURFACES.
9. FURNISH AND INSTALL 2-PORT SURFACE MTD SIDE ENTRY BOX WITH CAT 6 JACK AT EACH CAMERA LOCATION (SEE PLANS FOR CAMERA QTY AND LOCATION). MOUNT SIDE ENTRY BOX IN ACCESSIBLE CEILING SPACE OR IN 6" X 6" J-BOX WITH VANDAL RESISTANT SCREWS.
10. FURNISH AND INSTALL 4'-0", 15'-0" OR 25'-0" CAT 6 PATCH CORD (LENGTH AS NEEDED) TO CROSS CONNECT CAMERAS TO THE SIDE ENTRY BOX.
11. FURNISH AND INSTALL IP VIDEO SURVEILLANCE CAMERA AND ASSOCIATED MOUNTS/ENCLOSURES (SEE CAMERA SCHEDULE FOR REQUIREMENTS). ALL MOUNTS AND ENCLOSURES SHALL BE PROVIDED WITH VANDAL RESISTANT SCREWS.
12. INSTALL 24VAC CIRCUIT TO EACH EXTERIOR PTZ (12AWG). 24VAC CONDUCTORS SHALL BE PLENUM RATED. MAINTAIN 6" SEPARATION BETWEEN THE 24VAC CONDUCTORS AND THE CAT 6 CABLING. 24VAC CIRCUITS AND CAT 6 CABLING CAN RUN IN THE SAME CONDUIT WHERE EXPOSED ON THE EXTERIOR OF THE BLDG FOR DISTANCES LESS THAN 50'-0". ALL EXPOSED CABLING SHALL BE ROUTED IN IMC CONDUIT. ALL EXPOSED CONDUIT TO BE PAINTED TO MATCH EXISTING SURFACES.
13. NETWORK VIDEO RECORDING SERVER (SEE SCHEDULE ON A/T004 FOR MODEL NUMBER). SEE RACK ELEVATIONS ON C/T213 FOR MOUNTING.



C T004 — ROOF PARAPET MOUNTED CAMERA DETAILS
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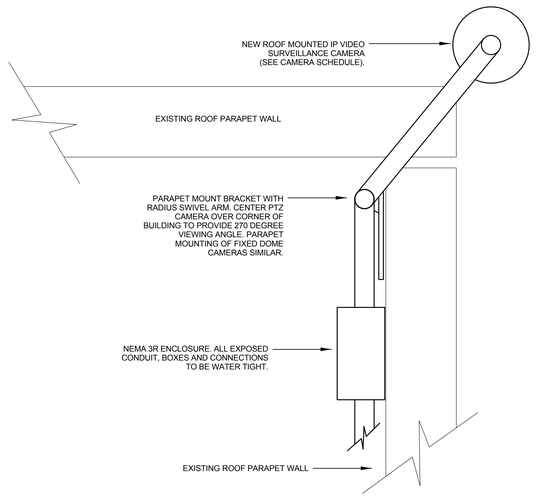
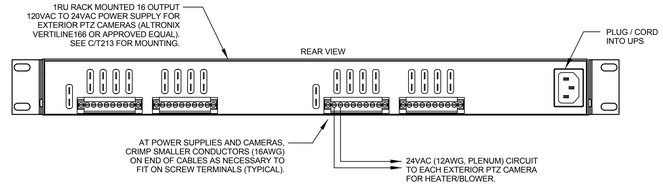


PLAN A - A



D T004 — RACK MOUNTED POWER SUPPLY FOR EXTERIOR PTZ CAMERAS
N.T.S.

ALTERNATE #4 - VIDEO SURVEILLANCE SYSTEM

DELETE CAMERAS, CABLING, DVR'S, EQUIPMENT, SOFTWARE, LICENSING, ETC. AS PART OF ALT. #4. (CONDUIT, PULLWIRE AND BOXES SHALL BE ROUGHED-IN).

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4	AMENDMENT #4	8/7/2013

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Facsimile 310 473 3555
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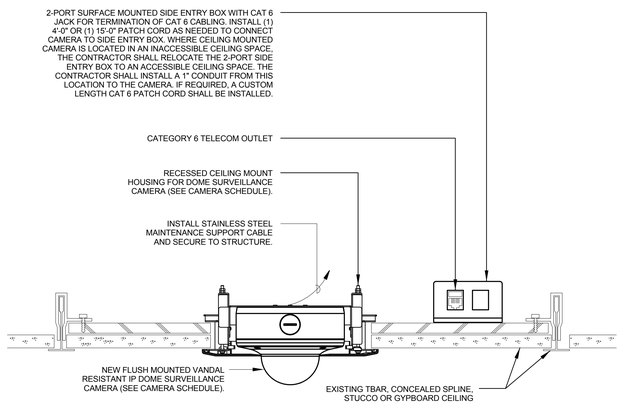
Drawing Title: IP Video Surveillance Camera Oneline Diagrams
Scale: N.T.S.
Approved Project Director

Project Title: VA RENO HEALTHCARE SYSTEM COMMUNITY LIVING CENTER EXPANSION
Project No. #1017200 | VA Contract No. VA261-P-0933
Location: 975 KIRMAN AVE., RENO, NEVADA 89502
Date: 04/15/2013 | Checked: KDP | Drawn: TPT

VA Project No. 654-317
Building No.
Drawing No. T004

Office of Construction and Facilities Management
Department of Veteran Affairs

BID DOCUMENTS



A T005 T-BAR CLG MTD DOME CAMERA
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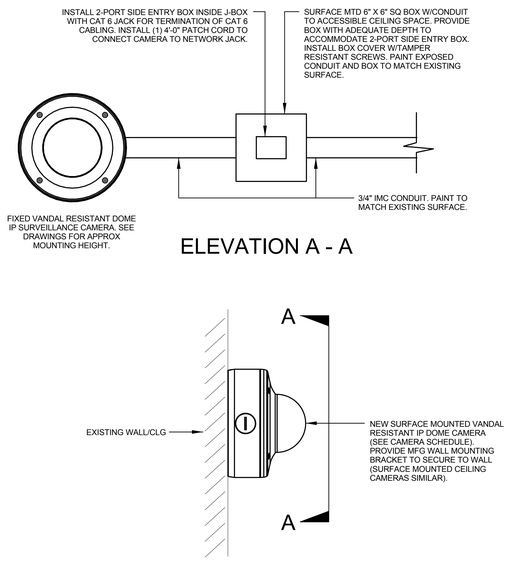

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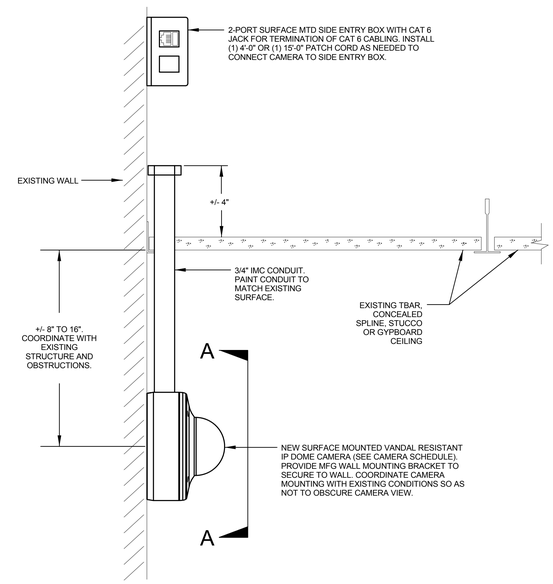

C T005 SURFACE WALL MTD DOME CAMERA
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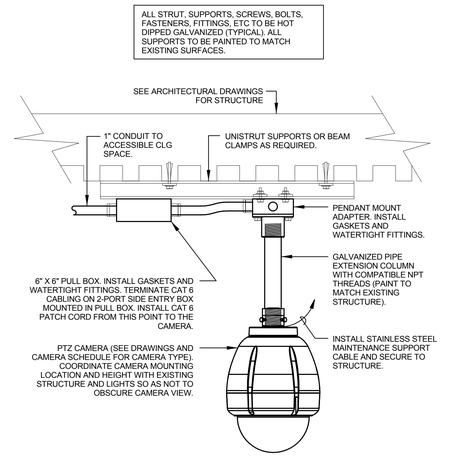

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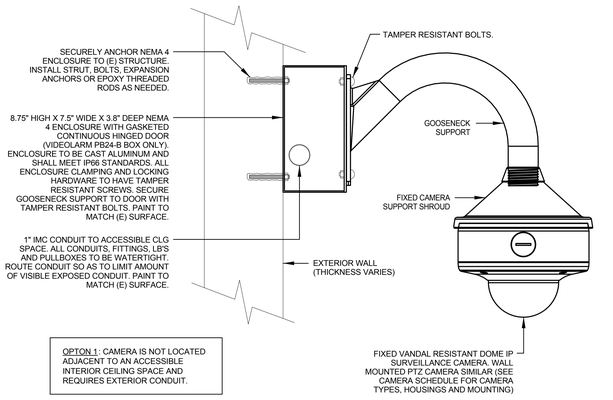

E T005 EXTERIOR WALL MTD CAMERA-OPTION 1
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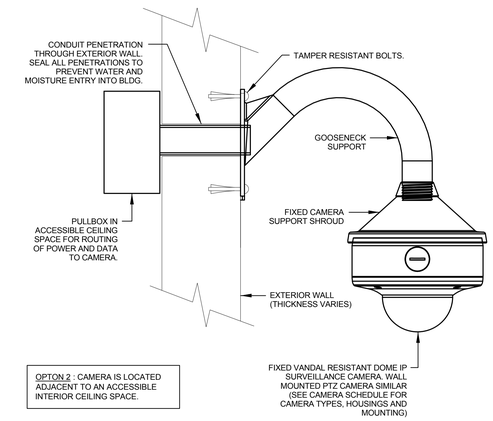
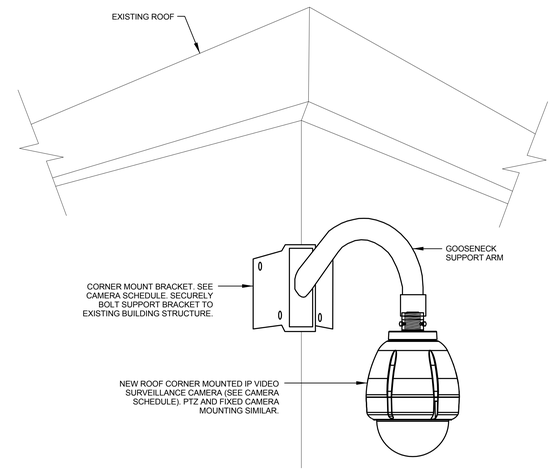


F T005 EXTERIOR WALL MTD CAMERA-OPTION 2
N.T.S.



G T005 ROOF CORNER MTD CAMERA (ELEV)
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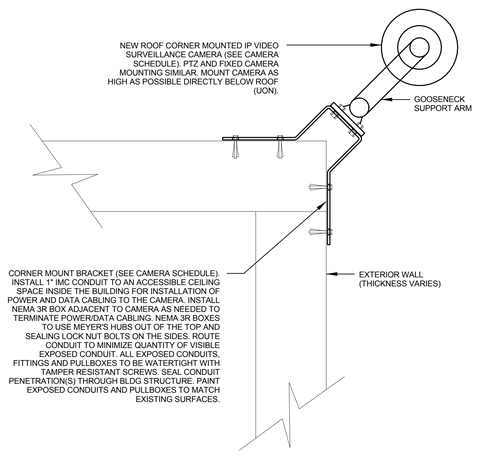

H T005 ROOF CORNER MTD CAMERA (PLAN)
N.T.S.

ALTERNATE #4 - VIDEO SURVEILLANCE SYSTEM

DELETE CAMERAS, CABLING, DVR'S, EQUIPMENT, SOFTWARE, LICENSING, ETC AS PART OF ALT. #4. (CONDUIT, PULLWIRE AND BOXES SHALL BE ROUGHED-IN).

PROFESSIONAL ENGINEER - STATE OF NEVADA - KAREN D. PURCELL - 12/31/13 - ELECTRICAL - No 11513

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4	AMENDMENT #4	8/7/2013

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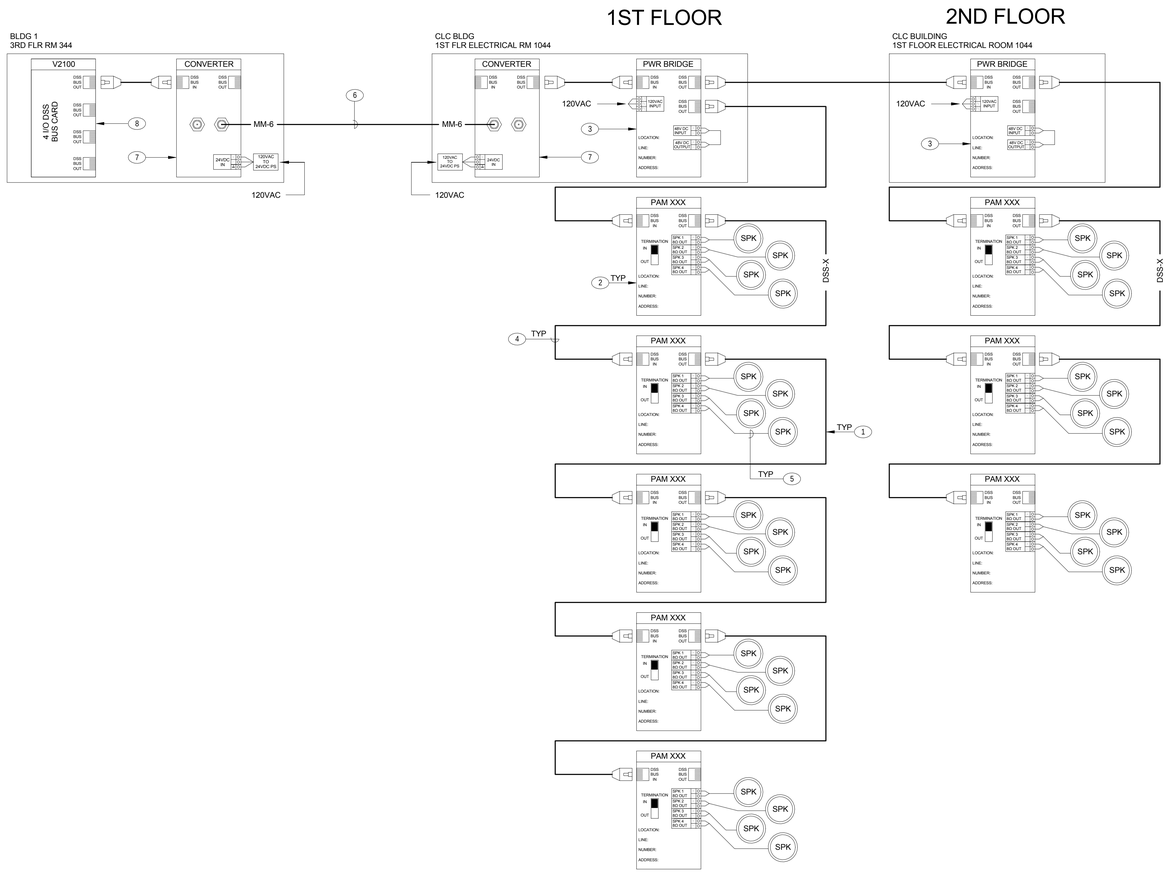
Drawing Title: IP Video Surveillance Camera Mounting Details
Scale: N.T.S.
Approved Project Director

Project Title: VA RENO HEALTHCARE SYSTEM COMMUNITY LIVING CENTER EXPANSION
Project No. #1017200
VA Contract No. VA261-P-0933
Location: 975 KIRMAN AVE., RENO, NEVADA 89502
Date 04/15/2013 | Checked KDP | Drawn TPT

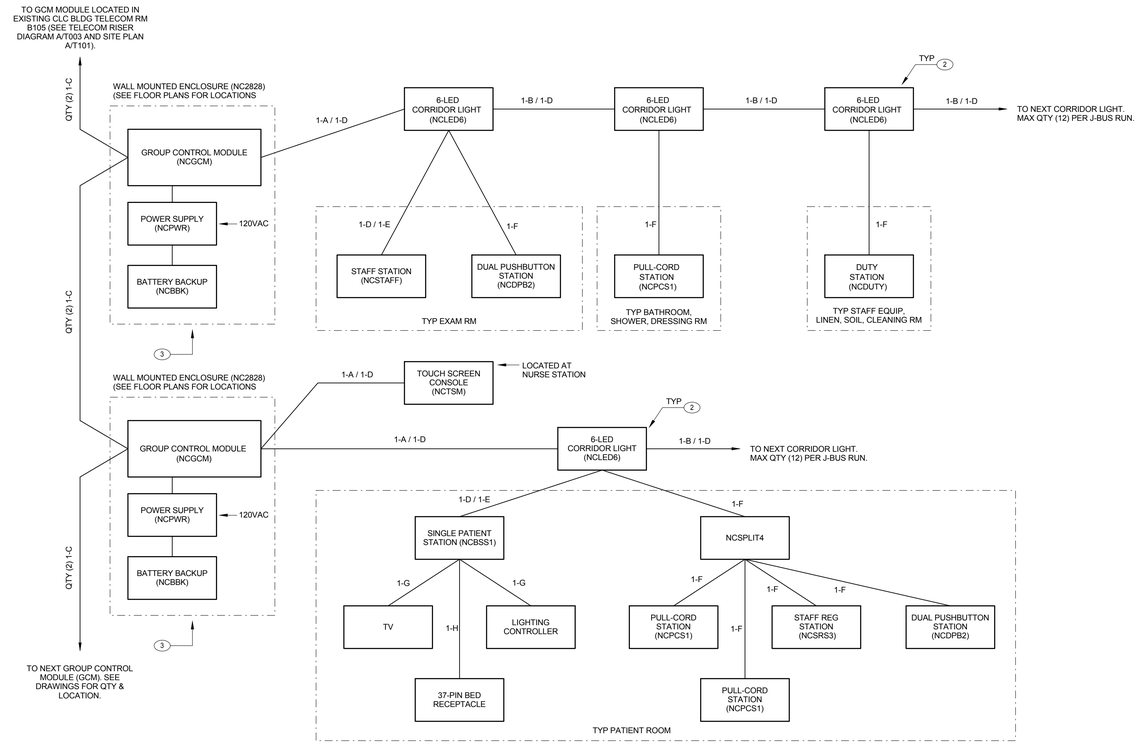
VA Project No. 654-317
Building No.
Drawing No. T005

Office of Construction and Facilities Management
Department of Veteran Affairs

BID DOCUMENTS



A T006 PAGING ONELINE DIAGRAM
N.T.S.



B T006 NURSE CALL ONELINE
N.T.S.

PAGING ONELINE GENERAL NOTES

1. THE VA HAS AN EXISTING OVERHEAD PAGING SYSTEM THROUGHOUT THE FACILITY. ALL COMPONENTS OF THE PAGING SYSTEMS INCLUDING SPEAKERS, POWER SUPPLIES, PROGRAMMABLE AMPLIFIER MODULES AND CABLING TO MATCH EXISTING.
2. PAM MODULES ARE ADDRESSABLE AND REQUIRE UNIQUE ADDRESSES TO FUNCTION ON THE SYSTEM. THE CONTRACTOR SHALL EXAMINE THE EXISTING SYSTEM TO DETERMINE THE REQUIRED DSS BUS NUMBER AND ADDRESS SCHEME.
3. THE PAGING SINGLE LINE DIAGRAM AND FLOOR PLANS DO NOT SHOW ALL REQUIRED DEVICES AND CABLING. FURNISH AND INSTALL ALL NECESSARY DEVICES AND CABLING TO PROVIDE A COMPLETE AND OPERATIONAL ADDRESSABLE PAGING SYSTEM.
4. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL COMPLETE WIRING DIAGRAMS FOR THE ENTIRE SYSTEM SHOWING ALL REQUIRED CABLING AND COMPONENTS.
5. ALL PAGING POWER AND COMMUNICATION CABLING TO BE ROUTED IN CONDUIT.
6. THE ENTIRE OVERHEAD PAGING SYSTEM INCLUDING CONDUIT, CONTROLLERS, POWER SUPPLIES, ETC SHALL BE BONDED AND GROUNDED.
7. PROGRAM THE SYSTEM IN ACCORDANCE WITH RENO VA STANDARDS.
8. TEST AND COMMISSION THE ENTIRE PAGING SYSTEM TO VERIFY THE OPERATION OF ALL DEVICES. PROVIDE TRAINING TO THE RENO VA ON THE OPERATION AND MAINTENANCE OF THE SYSTEM.

PAGING ONELINE SHEET NOTES

1. 15 WATT 8-OHM LOUDSPEAKER WITH BACKBOX MOUNTED IN 1' X 2' LAY-IN CEILING PLATE WITH PERFORATED GRILLE (LOWELL P/N LT-810-BB).
2. 25 WATT PROGRAMMABLE AMPLIFIER MODULE (PAM) CAPABLE OF POWERING QTY (4) 8-OHM LOUDSPEAKERS (ATLAS VARIZONE P/N V2250).
3. IN LINE 100-WATT POWER SUPPLY (ATLAS VARIZONE P/N VZ3161). PROVIDE 750VA WALL MOUNTED BATTERY BACKUP FOR EACH POWER SUPPLY.
4. INSTALL PLENUM RATED CAT 5E CABLING BETWEEN THE PAM MODULES AND POWER SUPPLIES. CAT 5E CABLING SHALL HAVE A "PINK" JACKET TO MATCH EXISTING (PAIGE P/N 710536EPK). TERMINATE CABLING AT BOTH ENDS WITH 8-POSITION RJ-45 PLUGS. ALL CABLING TO BE ROUTED IN CONDUIT.
5. INSTALL PLENUM RATED 2 CONDUCTOR 16AWG SPEAKER CABLING BETWEEN THE PAM MODULES AND THE SPEAKERS. SPEAKER CABLING SHALL HAVE A "PINK" JACKET TO MATCH EXISTING (PAIGE P/N 324694APK). ALL CABLING TO BE ROUTED IN CONDUIT. INSTALL FLEX CONDUIT FROM SPEAKERS TO ADJACENT PULLBOXES.
6. PROVIDE INDOOR/OUTDOOR RATED 6-STRAND MULTIMODE CABLING BETWEEN THE CLC BLDG AND BLDG 1 ROOM 344 (SEE TELECOM RISER DIAGRAM A/T003).
7. FIBER TO COPPER CONVERTER (VARIZONE P/N DV-3190). PROVIDE 120VAC TO 24VDC POWER SUPPLY FOR EACH CONVERTER. PROVIDE 750VA WALL MOUNTED BATTERY BACKUP FOR EACH CONVERTER.
8. PROVIDE NEW VARIZONE 4 I/O DSS BUS CARD IN ROOM 344 (ATLAS VARIZONE P/N V2100). INSTALL CARD IN EXISTING VARIZONE CONTROLLER FRAME.

NURSE CALL GENERAL NOTES

1. THE NURSE CALL ONELINE DIAGRAM AND FLOOR PLANS DO NOT SHOW ALL REQUIRED DEVICES AND CABLING. FURNISH AND INSTALL ALL NECESSARY DEVICES AND CABLING TO PROVIDE A COMPLETE AND OPERATIONAL RAULAND RESPONDER IV NURSE CALL SYSTEM.
2. PERFORM POWER CALCULATIONS AS DIRECTED BY RAULAND TO DETERMINE THE QTY OF POWER SUPPLIES AND BATTERY BACKUPS REQUIRED.
3. COMPLY WITH ALL MANUFACTURER GUIDELINES AND REQUIREMENTS OF THE RAULAND RESPONDER IV SYSTEM INCLUDING MAXIMUM CABLE LENGTHS AND MAXIMUM QTY OF DEVICES PER "BUS" RUN.
4. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL COMPLETE WIRING DIAGRAMS FOR THE ENTIRE SYSTEM SHOWING ALL REQUIRED CABLING AND COMPONENTS.
5. ALL NURSE CALL POWER AND COMMUNICATION CABLING TO BE ROUTED IN CONDUIT. THE ENTIRE NURSE CALL SYSTEM INCLUDING CONDUIT, CABINETS, CONTROLLERS, POWER SUPPLIES, ETC SHALL BE BONDED AND GROUNDED.
6. ALL NURSE CALL CABLING TO BE NEON GREEN TO MATCH EXISTING NURSE CALL CABLING INSTALLED IN THE FACILITY.
7. COORDINATE NURSE CALL DEVICE MOUNTING LOCATIONS WITH DEVICES AND EQUIPMENT PROVIDED BY OTHER TRADES. SEE ARCHITECTURAL DRAWINGS FOR WALL ELEVATIONS AND ADDITIONAL EQUIPMENT LOCATION INFORMATION.
8. BOND THE NURSE CALL SYSTEM TO GROUND AS REQUIRED BY LOCAL CODES.
9. PROGRAM THE SYSTEM IN ACCORDANCE WITH RENO VA STANDARDS.
10. TEST AND COMMISSION THE ENTIRE NURSE CALL SYSTEM TO VERIFY THE OPERATION OF ALL DEVICES. PROVIDE TRAINING TO THE RENO VA ON THE OPERATION AND MAINTENANCE OF THE SYSTEM.

NURSE CALL SHEET NOTES

1. NOT USED.
2. WHERE CORRIDOR LIGHTS ARE NOT PRESENT, PROVIDE J-BUS DROP CIRCUITS (NCJDROP) TO SUPPORT CONTROL STATIONS OR UNIVERSAL STATION MODULES (NCUS1) TO SUPPORT SUB-STATIONS AS REQUIRED.
3. PROVIDE AND INSTALL QTY (2) GCM'S PER FLOOR. INSTALL BOTH GCM'S IN A COMMON NC2828 CABINET. IN EACH NC2828 CABINET, PROVIDE QTY (3) POWER SUPPLIES (NCPWR) AND (3) BATTERY BACKUPS (NCBBK).

NURSE CALL WIRING LEGEND

A	12/2 POWER CABLE (PAIGE 800040)
B	14/2 POWER CABLE (PAIGE 800038)
C	X-BUS CABLE 4-PAIR CAT 5E (PAIGE 800536E)
D	J-BUS CABLE 4-PAR CAT 5E (PAIGE 800536E)
E	CL-BUS CABLE 4-PAIR CAT 5E (PAIGE 800536E)
F	S-BUS CABLE 4-PAIR CAT 5E (PAIGE 800536E)
G	TV CABLE (3) #22 (PAIGE 800026).
H	BED RAIL 15 #22 1-PR SHIELDED PRE INSTALLED ON NCBED RK

ALTERNATE #4

DELETE NURSE CALL AND CODE BLUE PAGING SYSTEM BACKBONE CABLING. DELETE ALL DEVICES, EQUIPMENT AND CABLING AS PART OF ALT. #4. (NURSE CALL PANEL BACK BOXES, DEVICE BACK BOXES, CONDUIT AND PULLWIRE SHALL BE ROUGHED-IN).

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Drawing Title
Paging & Nurse Call Oneline Diagrams

Scale
N.T.S.

Approved Project Director

Project Title
VA RENO HEALTHCARE SYSTEM COMMUNITY LIVING CENTER EXPANSION

Project No. #1017200
VA Contract No. VA261-P-0933

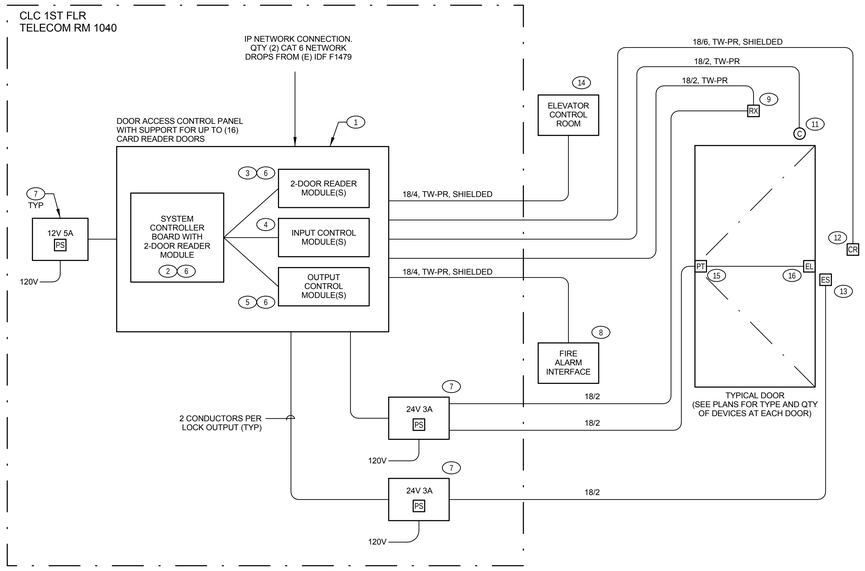
Location
975 KIRMAN AVE., RENO, NEVADA 89502

Date 04/15/2013
Checked KDP
Drawn TPT

VA Project No. 654-317
Building No.
Drawing No. T006

Office of Construction and Facilities Management
Department of Veteran Affairs

BID DOCUMENTS



A T007 DOOR SECURITY ONELINE

N.T.S.

DOOR SECURITY ONELINE GENERAL NOTES

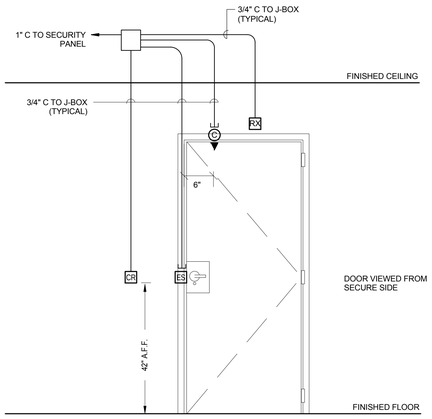
1. THE DOOR ACCESS CONTROL SYSTEM SHALL MATCH AND BE COMPATIBLE WITH THE EXISTING ACCESS CONTROL SYSTEM INSTALLED AT THE RENO VA. THE CURRENT DOOR ACCESS CONTROL SYSTEM IS MANUFACTURED BY LENEL WITH CARD READERS MANUFACTURED BY HID GLOBAL.
2. SUBMIT SHOP DRAWINGS FOR APPROVAL INCLUDING POINT-TO-POINT WIRING AND PANEL BLOCK DIAGRAMS SHOWING ALL DEVICES AND REQUIRED CABLING.
3. SUBMIT LAYOUT DRAWING FOR APPROVAL OF THE EQUIPMENT MOUNTED IN THE HOFFMAN SECURITY ENCLOSURE(S) INCLUDING SECURITY PANELS, ADD-IN BOARDS, POWER SUPPLIES, BATTERY CHARGERS, FUSES, RELAYS, BATTERIES, NETWORK OUTLETS, ELECTRICAL OUTLETS, CABLE MANAGEMENT WIREWAYS, OVERHEAD GUTTERS, ETC.
4. SUBMIT CUT SHEETS FOR APPROVAL OF ALL SECURITY EQUIPMENT INCLUDING BUT NOT LIMITED TO SECURITY PANELS, ADD-IN BOARDS, SECURITY SOFTWARE, SOFTWARE LICENSING, RELAYS, POWER SUPPLIES, BATTERIES, CABLING, REQUEST TO EXITS, DOOR CONTACTS, CARD READERS, LOCAL ALARMS, PUSH BUTTONS, POWER TRANSFER HINGES, ETC.
5. SUBMIT BATTERY CALCULATIONS FOR APPROVAL. BATTERIES SHALL BACKUP THE ENTIRE SYSTEM FOR A MINIMUM OF 2 HOURS.
6. ALL SECURITY CABLE IS TO BE ROUTED IN CONDUIT.

DOOR SECURITY SYMBOL LIST

CR	PROX CARD READER
LA	LOCAL ALARM
C	MAGNETIC DOOR CONTACT
RX	REQUEST TO EXIT
ES	ELECTRIC STRIKE
PB	DOOR MANUAL RELEASE PUSH BUTTON
EL	ELECTRIC LOCK
PT	POWER TRANSFER HINGE

DOOR SECURITY ONELINE SHEET NOTES

1. DOOR ACCESS CONTROL PANEL INCLUDING CONTROLLERS, READER INTERFACE MODULES, I/O MODULES, POWER SUPPLIES, BATTERIES, RELAYS, ETC. ALL EQUIPMENT TO BE MOUNTED IN LOCKABLE 36" X 36" HOFFMAN ENCLOSURES. SEE PLANS FOR LOCATION OF SECURITY PANELS. SEE DETAIL C/T007 FOR GENERAL LAYOUT OF ACCESS CONTROL EQUIPMENT INSIDE HOFFMAN ENCLOSURES.
2. DOOR ACCESS SYSTEM CONTROLLER WITH 2-DOOR READER MODULE (LENEL LNL-2220). PROVIDE NETWORK CONNECTION TO VA LAN VIA CAT 6 DROP.
3. 2- DOOR READER INTERFACE MODULE (LENEL LNL-1320). PROVIDE QTY OF 2-READER MODULES TO ACCOMMODATE ALL DOORS. DO NOT EXCEED QTY (7) 2-READER BOARDS PER LNL-2220 SYSTEM CONTROLLER (16 CARD READER DOORS TOTAL PER SECURITY PANEL).
4. 16-INPUT CONTROL MODULE (LENEL LNL-1100). PROVIDE QUANTITY OF 16-INPUT CONTROL MODULES TO ACCOMMODATE ALL INPUTS (SEE DRAWINGS FOR INPUT DEVICES).
5. 16-OUTPUT CONTROL MODULE (LENEL LNL-1200 OR APPROVED EQUAL). PROVIDE QUANTITY OF 16-OUPUT CONTROL MODULES TO ACCOMMODATE ALL OUTPUTS (SEE DRAWINGS FOR OUTPUT DEVICES).
6. INSTALL SEPARATE DIN MOUNTED RELAYS TO ACTIVATE 24V POWER TO DEVICES INCLUDING LOCKS, REQUEST TO EXITS, LOCAL ALARMS, ETC. DO NOT RUN 24V POWER THROUGH RELAYS MOUNTED ON SYSTEM CONTROLLER BOARDS, READER MODULES AND OUTPUT MODULES.
7. POWER SUPPLIES/BATTERY CHARGERS/RELAYS. INSTALL POWER SUPPLIES IN HOFFMAN ENCLOSURES. PROVIDE 120VAC CONNECTION TO EACH POWER SUPPLY. PROVIDE BATTERIES TO BACKUP ALL POWER SUPPLIES. THE CONTRACTOR SHALL PERFORM CALCULATIONS TO DETERMINE THE NUMBER OF BATTERIES REQUIRED TO BACKUP EACH POWER SUPPLY. IN THE CASE OF A POWER FAILURE, THE BATTERIES SHALL PROVIDE A MINIMUM OF 2 HOURS OF CONTINUOUS BACKUP.
8. INSTALL INTERFACE BETWEEN FIRE ALARM SYSTEM AND SECURITY SYSTEM. IN CASE OF FIRE ALARM, ALL EGRESS DOORS SHOULD FAIL OPEN.
9. REQUEST-TO-EXIT (REX) MOTION DETECTOR (BOSCH DS160).
10. NOT USED.
11. MAGNETIC DOOR CONTACTS (GE/SENTROL 1078).
12. CONTACTLESS SMART CARD READER (HID GLOBAL RP40).
13. ELECTRIC STRIKE. SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE.
14. INSTALL OUTPUT TO ELEVATOR CONTROLLER IN ROOM 1044. COORDINATE TIE-IN LOCATION W/ ELEVATOR CONTRACTOR. FIRSTFLOOR, SECOND FLOOR, AND ROOF LOBBY ELEVATOR CALL BUTTONS SHOULD BE LOCKED OUT UNTIL A SUCCESSFUL CARD READ IS MADE.
15. POWER TRANSFER HINGE. SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE.
16. ELECTRIC LOCK. SEE ARCHITECTURAL DOOR HARDWARE SCHEDULE.



B T007 1-DOOR W/ CARD READER & ELECTRIC STRIKE

N.T.S.

DOOR SECURITY GENERAL NOTES

1. SEE A/T007 FOR DOOR SECURITY ONELINE DIAGRAM.
2. ALL SECURITY CABLE IS TO BE ROUTED IN CONDUIT.
3. SEE DOOR HARDWARE SCHEDULE FOR ELECTRIFIED DOOR HARDWARE TO BE FURNISHED AND INSTALLED BY DOOR CONTRACTOR.
4. COORDINATE LOCATION AND MOUNTING OF CARD READERS, LOCAL ALARM, REQUEST TO EXITS, ETC. WITH ARCHITECT.

C T007 SECURITY ENCLOSURE LAYOUT

N.T.S.

D T007 STAIRWELL CARD-IN, CARD-OUT W/DELAYED EGRESS PANIC BAR & AUDIBLE ALARM

N.T.S.

ALTERNATE #4 - DOOR SECURITY

DELETE ALL CABLING, EQUIPMENT AND DEVICES AS PART OF ALT. #4. (CONDUIT, BOXES AND PULLWIRE TO ALL DOORS / DEVICES SHALL BE ROUGH-IN. POWER SHALL BE PROVIDED).

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Drawing Title: Door Access Control Details

Scale: N.T.S.

Approved Project Director

Project Title: VA RENO HEALTHCARE SYSTEM COMMUNITY LIVING CENTER EXPANSION

Project No. #1017200 | VA Contract No. VA261-P-0933

Location: 975 KIRMAN AVE., RENO, NEVADA 89502

Date 04/15/2013 | Checked KDP | Drawn TPT

VA Project No. 654-317

Building No.

Drawing No. T007

Office of Construction and Facilities Management

Department of Veteran Affairs

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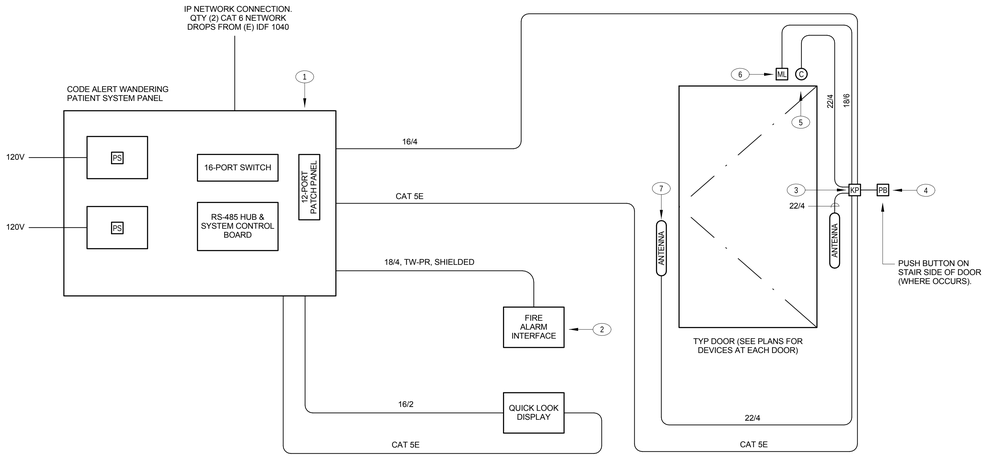


A T008 CODE ALERT WANDERING SYSTEM ONELINE

N.T.S.

PATIENT WANDERING ONELINE GENERAL NOTES

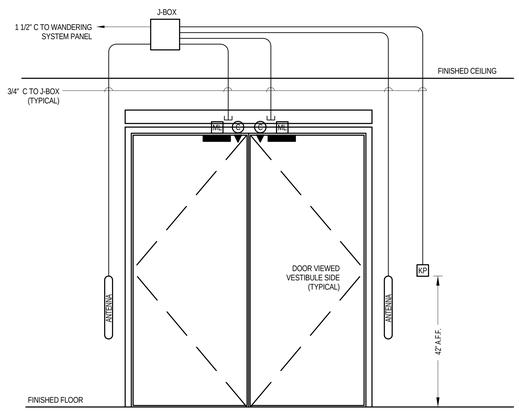
1. THE PATIENT WANDERING SYSTEM SHALL MATCH AND BE COMPATIBLE WITH THE EXISTING SYSTEM INSTALLED AT THE RENO VA. THE CURRENT SYSTEM IS MANUFACTURED BY RF TECHNOLOGIES.
2. SUBMIT SHOP DRAWINGS FOR APPROVAL INCLUDING POINT-TO-POINT WIRING AND PANEL BLOCK DIAGRAMS SHOWING ALL DEVICES AND REQUIRED CABLING.
3. SUBMIT LAYOUT DRAWING FOR APPROVAL OF THE EQUIPMENT MOUNTED IN THE HOFFMAN ENCLOSURE(S) INCLUDING POWER SUPPLIES, CONTROL BOARDS, SWITCHES, PATCH PANELS, FUSES, RELAYS, BATTERIES, NETWORK OUTLETS, ELECTRICAL OUTLETS, CABLE MANAGEMENT WIREWAYS, OVERHEAD GUTTERS, ETC.
4. SUBMIT CUT SHEETS FOR APPROVAL OF ALL EQUIPMENT INCLUDING BUT NOT LIMITED TO POWER SUPPLIES, CONTROL BOARDS, SWITCHES, PATCH PANELS, FUSES, RELAYS, BATTERIES, DISPLAYS, SERVER, COMPUTER WORKSTATION, PUSH BUTTONS, MAGNETIC LOCKS, DOOR POSITION CONTACTS, ANTENNAS, KEY PADS, CABLING, ETC.
5. SUBMIT BATTERY CALCULATIONS FOR APPROVAL. BATTERIES SHALL BACKUP THE ENTIRE SYSTEM FOR A MINIMUM OF 30 MIN.
6. ALL SECURITY CABLE IS TO BE ROUTED IN CONDUIT.
7. IN THE EVENT OF A FIRE ALARM, ALL EGRESS DOORS SHALL FAIL OPEN.

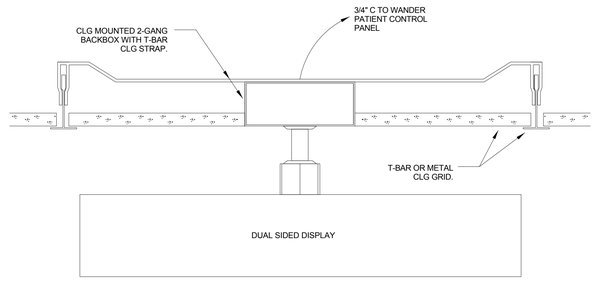
PATIENT WANDERING ONELINE SHEET NOTES

1. CODE ALERT WANDERING PATIENT SYSTEM CONTROL PANEL. ALL SYSTEM COMPONENTS INCLUDING POWER SUPPLIES, CONTROL BOARDS, ELECTRONICS, ETC SHALL BE MOUNTED IN A LOCKABLE 3'-0" WIDE X 3'-0" HIGH X 8" DEEP HOFFMAN ENCLOSURE. SEE PLANS FOR LOCATION OF SYSTEM PANELS.
2. INSTALL INTERFACE BETWEEN WANDERING PATIENT PANEL AND FIRE ALARM SYSTEM. IN CASE OF FIRE ALARM, ALL EGRESS DOORS SHOULD FAIL OPEN.
3. EXIT ALARM CONTROLLER WITH KEYPAD (CODE ALERT 9450 MODEL 80).
4. MANUAL RELEASE PUSH BUTTON.
5. DOOR POSITION CONTACTS.
6. MAGNETIC DOOR LOCK (CODE ALERT CODELOCK MODEL CL151).
7. ANTENNA (CODE ALERT DUOLINK EXIT ALARM RECEIVER).

PATIENT WANDERING SYMBOL LIST

KP	KEY PAD (EXIT ALARM CONTROLLER)
C	DOOR POSITION CONTACT
PB	MANUAL RELEASE PUSH BUTTON
ML	MAGNETIC LOCK
PS	CENTRAL POWER SUPPLY





B T008 NOT USED

C T008 DOUBLE EXIT DOORS

N.T.S.

D T008 CEILING DISPLAY ROUGH-IN

N.T.S.

ALTERNATE #4 - CODE BLUE PAGING

DELETE ALL DEVICES AND CABLING AS PART OF ALT. #4. (CONDUIT AND PULLWIRE SHALL BE ROUGHED-IN TO DEVICE LOCATIONS).

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Drawing Title
Patient Wandering System Details

Scale
N.T.S.

Approved Project Director

Project Title
VA RENO HEALTHCARE SYSTEM COMMUNITY LIVING CENTER EXPANSION

Project No. #1017200
VA Contract No. VA261-P-0933

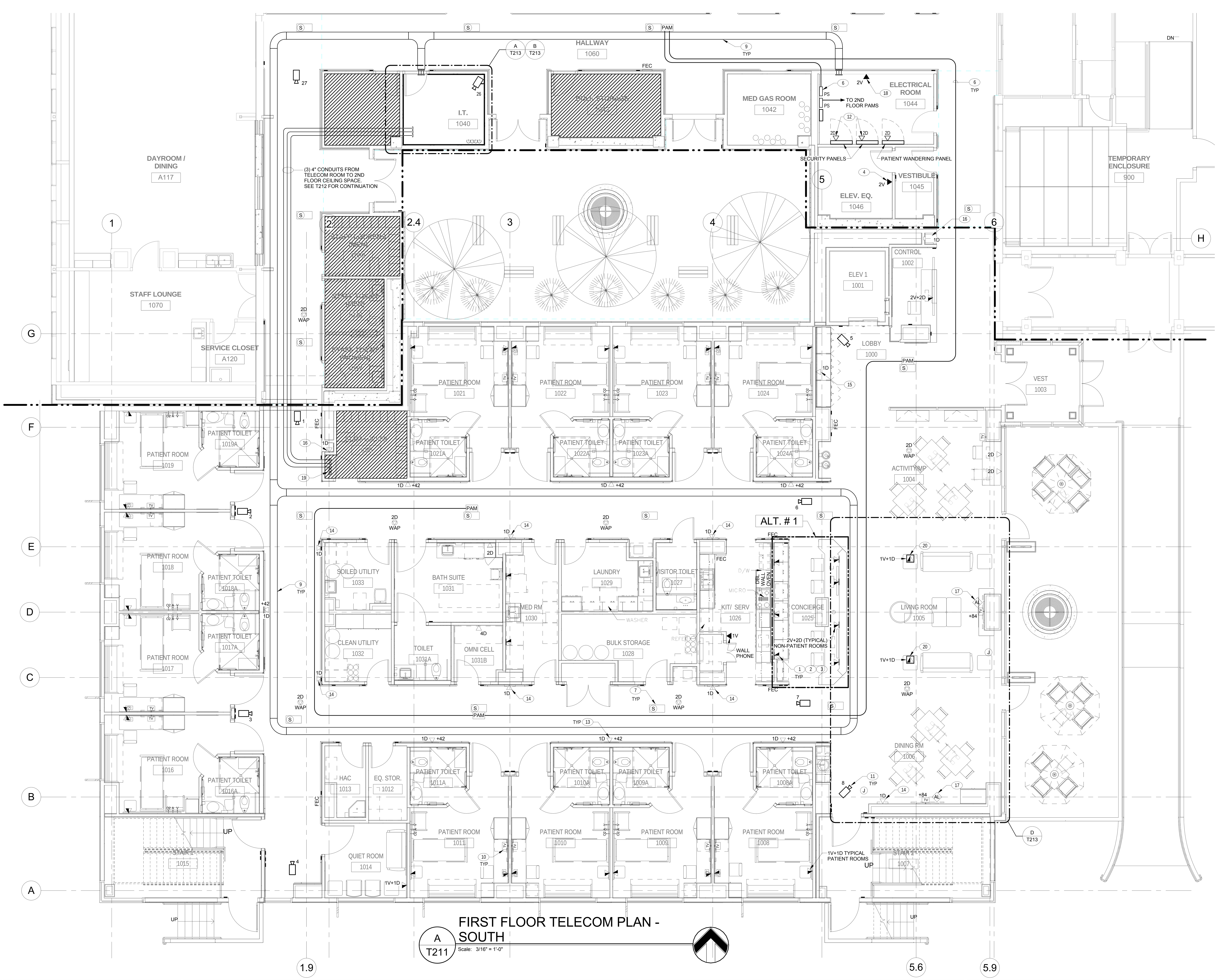
Location
975 KIRMAN AVE., RENO, NEVADA 89502

Date 04/15/2013
Checked KDP
Drawn TPT

VA Project No. 654-317
Building No.
Drawing No. T008

Office of Construction and Facilities Management
Department of Veteran Affairs

BID DOCUMENTS



FIRST FLOOR TELECOM PLAN - SOUTH

A / T211 — Scale: 3/16" = 1'-0"

GENERAL NOTES

1. SEE ENLARGED ARCHITECTURAL PLANS FOR EXACT LOCATION OF DEVICES AND EQUIPMENT.

TELECOM SHEET NOTES

1. AT ALL TELECOM OUTLETS INSTALL 1" CONDUIT TO ACCESSIBLE CEILING SPACE. INSTALL J-HOOKS SPACED AT 4'-0" O.C. FROM THIS POINT TO THE NEAREST WIRE BASKET TRAY. SEE DETAILS A/T002 AND DT002 FOR TYPICAL TELECOM OUTLET ROUGH-IN DETAILS.
2. INSTALL QTY OF CAT 6 VOICE AND DATA DROPS TO EACH TELECOM OUTLET AS SHOWN ON THE DRAWINGS. FOR EXAMPLE "2V+2D" = 2 VOICE AND 2 DATA DROPS. VOICE CABLES SHALL BE PLENUM RATED WITH A BLUE JACKET. DATA CABLES SHALL BE PLENUM RATED WITH BLUE JACKET. TERMINATE ALL VOICE AND DATA CABLES ON CAT 6 DATA JACKS AT THE WORK AREA OUTLETS AND ON CAT 6 PATCH PANELS IN THE 1ST FLOOR TELECOM ROOM 1040.
3. LOCATE TELECOM OUTLETS DIRECTLY ADJACENT TO ELECTRICAL OUTLETS TYPICAL. COORDINATE LAYOUT OF TELECOM OUTLETS WITH ELECTRICAL DRAWINGS.
4. VOICE DROPS FOR ELEVATOR CAB PHONE. COORDINATE ROUGH-IN LOCATION WITH ELEVATOR CONTRACTOR.
5. DEVICES MOUNTED IN CASEWORK. SEE ARCHITECTURAL DETAILS FOR EXACT LOCATION.
6. INSTALL PLENUM RATED CAT 5E CABLING BETWEEN THE PAM MODULES AND POWER SUPPLIES. CAT 5E CABLING SHALL HAVE A "PINK" JACKET TO MATCH EXISTING (PAIGE P/N 710536EPK). TERMINATE CABLING AT BOTH ENDS WITH 8-POSITION RJ-45 PLUGS (SEE A/T006 FOR ADDITIONAL REQUIREMENTS).
7. INSTALL PLENUM RATED 2 CONDUCTOR 16AWG SPEAKER CABLING BETWEEN THE PAM MODULES AND SPEAKERS. SPEAKER CABLING SHALL HAVE A "PINK" JACKET TO MATCH EXISTING (PAIGE P/N 324694APK).
8. DATA DROP FOR WIRELESS ACCESS POINT LOCATED ABOVE CEILING. INSTALL DATA JACK IN 2-PORT SURFACE MOUNTED PLASTIC HOUSING. PROVIDE 25'-0" CABLE LOOP COILED ABOVE CEILING SO THAT THE WIRELESS ACCESS POINT CAN BE RELOCATED ANYWHERE WITHIN A 25'-0" RADIUS FROM THE LOCATION SHOWN ON THE DRAWINGS.
9. 18" WIDE BY 4" HIGH WIRE BASKET TRAY UON (LARGER TRAY SIZES SHOWN ON DRAWINGS). INSTALL TRAY 12" ABOVE FINISHED CEILING. COORDINATE TRAY ROUTING WITH MECHANICAL, ELECTRICAL, PLUMBING AND SPRINKLER TRADES AND EXISTING STRUCTURE. INSTALL #6 BONDING JUMPERS BETWEEN SECTIONS OF TRAY TO PROVIDE A CONTINUOUS GROUND PATH. BOND CABLE TRAY TO THE TELECOM GROUND BAR IN THE TELECOM ROOM. SUPPORT AND BRACE BASKET TRAY IN ACCORDANCE W/LOCAL BUILDING CODES. INSTALL 4" CONDUIT SLEEVES WHERE CABLE TRAY PENETRATES RATED OR ACOUSTICAL WALLS. FIRESTOP SLEEVES AFTER CABLE INSTALLATION.
10. CATV OUTLET WITH "F" TYPE CONNECTOR MOUNTED IN SINGLE PORT FACEPLATE. INSTALL QUAD SHIELD PLENUM RATED RG-6 CABLE (BELDEN 1189AP OR APPROVED EQUAL) FROM CATV OUTLET BACK TO THE TELECOM ROOM AND TERMINATE ON WALL MOUNTED CATV SPLITTERS (SEE C/T003 FOR ADDITIONAL CATV REQUIREMENTS).
11. IP VIDEO SURVEILLANCE CAMERA WITH CAT 6 NETWORK DROP TERMINATED IN TELECOM ROOM 1040. SEE CAMERA SCHEDULE AND DETAILS ON T004. SEE CAMERA MOUNTING DETAILS ON T005.
12. DATA DROPS FOR DOOR ACCESS CONTROL SECURITY PANEL. LOCATE DROPS WITHIN LOCKABLE SECURITY PANEL. COORDINATE WITH SECURITY CONTRACTOR.
13. DATA DROP FOR DIGITAL PICTURE FRAME.
14. DATA DROP LOCATED ABOVE CEILING FOR "CARE TRACKER" TOUCH SCREEN MOUNTED ON WALL BELOW.
15. DATA JACK LOCATED IN DISPLAY CASE.
16. DATA JACK FOR REMOTE MONITORING BY PC (by VAR) OF ACCORDION FIRE DOOR. COORDINATE WITH MANUFACTURER.
17. ASSISTED LISTENING LOOP SYSTEM AMPLIFIER. PLUG INTO EXISTING ELECTRICAL OUTLET AT FLAT PANEL DISPLAY. SEE D/T213 FOR ASSISTED LISTENING INDUCTION LOOPS TO BE SAW CUT INTO THE CONRETE FLOOR.
18. VOICE DROPS FOR FIRE ALARM PANEL. COORDINATE MOUNTING LOCATION WITH FIRE ALARM CONTRACTOR.
19. QTY (2) 4" CONDUITS UP TO SECOND FLOOR CEILING SPACE.
20. SEE ELECTRICAL DRAWINGS FOR FLOOR BOX REQUIREMENTS.

PAGING SYSTEM GENERAL NOTES

1. ALL IP PAGING SYSTEM COMPONENTS INCLUDING SPEAKERS, TRANSFORMERS, BACK CANS, GRILLES PROGRAMMABLE AMPLIFIER MODULES (PAM'S), POWER BRIDGES, ETC TO BE MANUFACTURED BY ATLAS VARIZONE AND SHALL MATCH EXISTING INSTALLED COMPONENTS.
2. ADDRESSES FOR THE PAM'S ARE SHOWN BASED ON AS-BUILT DRAWINGS. THE CONTRACTOR SHALL VERIFY THE EXISTING ADDRESS SCHEME PRIOR TO PROGRAMMING ADDRESSES INTO THE PAM'S.
3. THE CONTRACTOR SHALL UTILIZE TEST EQUIPMENT MANUFACTURED BY ATLAS VARIZONE TO TEST THE DSS BUS CABLING AND THE PAM'S (ATLAS VARIZONE P/N V2290).
4. SEE PAGING SYSTEM ONELINE DRAWING A/T006 FOR FURTHER REQUIREMENTS.
5. ALL PAGING SPEAKER CABLING AND DSS BUS CABLING TO BE ROUTED IN CONDUIT.

PAGING SYSTEM SYMBOLS

Symbol	Description
(S)	15 WATT 8-OHM LOUDSPEAKER WITH BACKBOX MOUNTED IN 1' X 2' LAY-IN CEILING PLATE WITH PERFORATED GRILLE (LOWELL P/N LT-810-BB).
PAM	25 WATT PROGRAMMABLE AMPLIFIER MODULE (PAM) CAPABLE OF POWERING QTY (4) 8-OHM LOUDSPEAKERS (ATLAS VARIZONE P/N V2250).
PS	IN LINE 100-WATT POWER SUPPLY (ATLAS VARIZONE P/N VZ3161).

4

ALTERNATE #4

ALL EQUIPMENT, DEVICES, CABLING FOR THE FOLLOWING SYSTEMS IS DELETED AS PART OF THIS ALTERNATE. (CONDUIT, BOXES AND PULLWIRE SHALL BE PROVIDED):
CODE BLUE PAGING
ASSISTED LIVING SYSTEM
SURVEILLANCE CAMERA SYSTEM

THE FOLLOWING WORK IS N.I.C.: VOICE / DATA CABLING, JACKS AND DEVICE PLATES.

MODIFIED WORK SCOPE

PROFESSIONAL ENGINEER - STATE OF NEVADA — KAREN D. PURCELL — EXP: 12/31/13 — ELECTRICAL — No 11513 — 8/6/13

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4	AMENDMENT #4	8/7/2013

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LICENSED ARCHITECT — ARTHUR E. BORDER — 4556 — 12/31/2013 — STATE OF NEVADA

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Facsimile 310 473 3555
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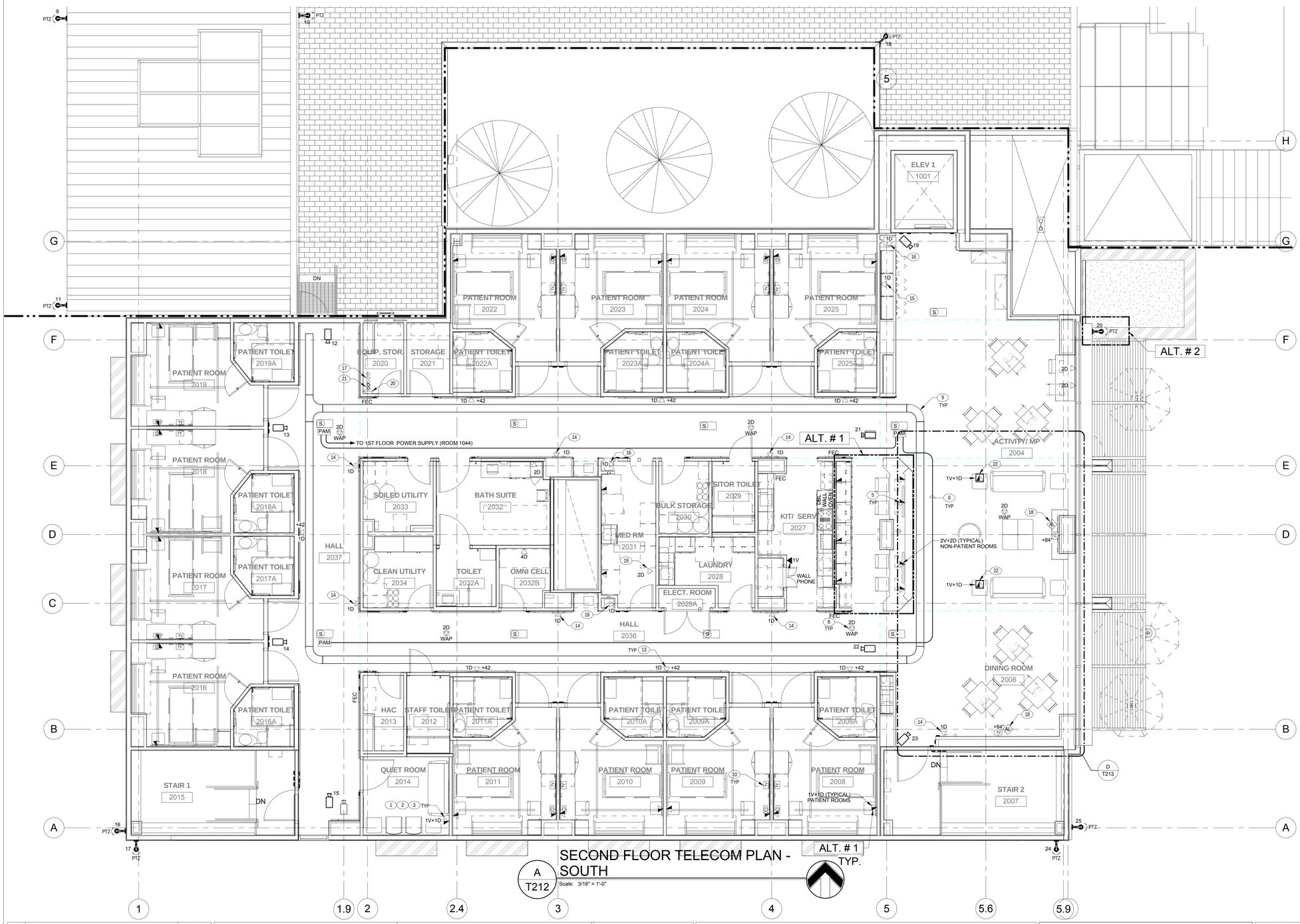
Drawing Title	First Floor Telecom Plan - South
Scale	3/16" = 1'-0"'
Approved Project Director	
Project Title	VA RENO HEALTHCARE SYSTEM COMMUNITY LIVING CENTER EXPANSION
Project No.	#1017200
VA Contract No.	VA261-P-0933
Location	975 KIRMAN AVE., RENO, NEVADA 89502
Date	04/15/2013
Checked	KDP
Drawn	TPT
VA Project No.	654-317
Building No.	
Drawing No.	T211

Office of Construction and Facilities Management
Department of Veteran Affairs

BID DOCUMENTS



SECOND FLOOR TELECOM PLAN - SOUTH

A T212

Scale: 3/16" = 1'-0"

ALT. # 1 TYP.

GENERAL NOTES

1. SEE ENLARGED ARCHITECTURAL PLANS FOR EXACT LOCATION OF DEVICES AND EQUIPMENT.

TELECOM SHEET NOTES

1. AT ALL TELECOM OUTLETS INSTALL 1" CONDUIT TO ACCESSIBLE CEILING SPACE. INSTALL J-HOOKS SPACED AT 4'-0" O.C. FROM THIS POINT TO THE NEAREST WIRE BASKET TRAY. SEE DETAILS A/T002 AND D/T002 FOR TYPICAL TELECOM OUTLET ROUGH-IN DETAILS.
2. INSTALL QTY OF CAT 6 VOICE AND DATA DROPS TO EACH TELECOM OUTLET AS SHOWN ON THE DRAWINGS. FOR EXAMPLE "2V+2D" = 2 VOICE AND 2 DATA DROPS. VOICE CABLES SHALL BE PLENUM RATED WITH A BLUE JACKET. DATA CABLES SHALL BE PLENUM RATED WITH BLUE JACKET. TERMINATE ALL VOICE AND DATA CABLES ON CAT 6 DATA JACKS AT THE WORK AREA OUTLETS AND ON CAT 6 PATCH PANELS IN THE 1ST FLOOR TELECOM ROOM 1040.
3. LOCATE TELECOM OUTLETS DIRECTLY ADJACENT TO ELECTRICAL OUTLETS TYPICAL. COORDINATE LAYOUT OF TELECOM OUTLETS WITH ELECTRICAL DRAWINGS.
4. NOT USED
5. DEVICES MOUNTED IN CASEWORK. SEE ARCHITECTURAL DETAILS FOR EXACT LOCATION.
6. INSTALL PLENUM RATED CAT 5E CABLING BETWEEN THE PAM MODULES AND POWER SUPPLIES. CAT 5E CABLING SHALL HAVE A "PINK" JACKET TO MATCH EXISTING (PAIGE P/N 710536EPK). TERMINATE CABLING AT BOTH ENDS WITH 8-POSITION RJ-45 PLUGS (SEE A/T006 FOR ADDITIONAL REQUIREMENTS).
7. INSTALL PLENUM RATED 2 CONDUCTOR 16AWG SPEAKER CABLING BETWEEN THE PAM MODULES AND SPEAKERS. SPEAKER CABLING SHALL HAVE A "PINK" JACKET TO MATCH EXISTING (PAIGE P/N 324694APK).
8. DATA DROP FOR WIRELESS ACCESS POINT LOCATED ABOVE CEILING. INSTALL DATA JACK IN 2-PORT SURFACE MOUNTED PLASTIC HOUSING. PROVIDE 25'-0" CABLE LOOP COILED ABOVE CEILING SO THAT THE WIRELESS ACCESS POINT CAN BE RELOCATED ANYWHERE WITHIN A 25'-0" RADIUS FROM THE LOCATION SHOWN ON THE DRAWINGS.
9. 18" WIDE BY 4" HIGH WIRE BASKET TRAY UON (LARGER TRAY SIZES SHOWN ON DRAWINGS). INSTALL TRAY 12" ABOVE FINISHED CEILING. COORDINATE TRAY ROUTING WITH MECHANICAL, ELECTRICAL, PLUMBING AND SPRINKLER TRADES AND EXISTING STRUCTURE. INSTALL #6 BONDING JUMPERS BETWEEN SECTIONS OF TRAY TO PROVIDE A CONTINUOUS GROUND PATH. BOND CABLE TRAY TO THE TELECOM GROUND BAR IN THE TELECOM ROOM. SUPPORT AND BRACE BASKET TRAY IN ACCORDANCE W/LOCAL BUILDING CODES. INSTALL 4" CONDUIT SLEEVES WHERE CABLE TRAY PENETRATES RATED OR ACOUSTICAL WALLS. FIRESTOP SLEEVES AFTER CABLE INSTALLATION.
10. CATV OUTLET WITH "F" TYPE CONNECTOR MOUNTED IN SINGLE PORT FACEPLATE. INSTALL QUAD SHIELD PLENUM RATED RG-6 CABLE (BELDEN 1189AP OR APPROVED EQUAL) FROM CATV OUTLET BACK TO THE TELECOM ROOM AND TERMINATE ON WALL MOUNTED CATV SPLITTERS (SEE C/T003 FOR ADDITIONAL CATV REQUIREMENTS).
11. IP VIDEO SURVEILLANCE CAMERA WITH CAT 6 NETWORK DROP TERMINATED IN TELECOM ROOM 1040. SEE CAMERA SCHEDULE AND DETAILS ON T004. SEE CAMERA MOUNTING DETAILS ON T005.
12. DATA DROPS FOR DOOR ACCESS CONTROL SECURITY PANEL. LOCATE DROPS WITHIN LOCKABLE SECURITY PANEL. COORDINATE WITH SECURITY CONTRACTOR.
13. DATA DROP FOR DIGITAL PICTURE FRAME.
14. DATA DROP LOCATED ABOVE CEILING FOR "CARE TRACKER" TOUCH SCREEN MOUNTED ON WALL BELOW.
15. DATA JACK LOCATED IN DISPLAY CASE.
16. DATA JACK FOR REMOTE MONITORING BY PC (by VAR) OF ACCORDIAN FIRE DOOR. COORDINATE WITH MANUFACTURER.
17. (3) 4" CONDUITS UP TO SECOND FLOOR CEILING SPACE. INSTALL NYLON BUSHINGS ON CONDUITS TO PROTECT CABLING. SEE T211 FOR CONTINUATION.
18. ASSISTED LISTENING LOOP SYSTEM APMPLIFIER. PLUG INTO EXISTING ELECTRICAL OUTLET AT FLAT PANEL DISPLAY. SEE D/T213 FOR ASSISTED LISTENING INDUCTION LOOPS TO BE SAW CUT INTO THE CONCRETE FLOOR.
19. DATA DROP ABOVE ON ROOF FOR HVAC UNIT. COORDIANTE MOUNTING WITH HAVAC CONTRACTOR.
20. 1-1/2" CONDUIT TO ROOF. STUB AND CAP FOR FUTURE USE.
21. (1) 4" CONDUIT FROM FIRST FLOOR CEILING SPACE TO SECOND FLOOR CEILING SPACE. INSTALL NYLON BUSHINGS ON BOTH ENDS OF CONDUIT.
22. SEE ELECTRICAL DRAWINGS FOR FLOOR BOX REQUIREMENTS.

PAGING SYSTEM GENERAL NOTES

1. ALL IP PAGING SYSTEM COMPONENTS INCLUDING SPEAKERS, TRANSFORMERS, BACK CANS, GRILLES PROGRAMMABLE AMPLIFIER MODULES (PAM'S), POWER BRIDGES, ETC TO BE MANUFACTURED BY ATLAS VARIZONE AND SHALL MATCH EXISTING INSTALLED COMPONENTS.
2. ADDRESSES FOR THE PAM'S ARE SHOWN BASED ON AS-BUILT DRAWINGS. THE CONTRACTOR SHALL VERIFY THE EXISTING ADDRESS SCHEME PRIOR TO PROGRAMMING ADDRESSES INTO THE PAMS.
3. THE CONTRACTOR SHALL UTILIZE TEST EQUIPMENT MANUFACTURED BY ATLAS VARIZONE TO TEST THE DSS BUS CABLING AND THE PAM'S (ATLAS VARIZONE P/N V2290).
4. SEE PAGING SYSTEM ONELINE DRAWING A/T006 FOR FURTHER REQUIREMENTS.
5. ALL PAGING SPEAKER CABLING AND DSS BUS CABLING TO BE ROUTED IN CONDUIT.

PAGING SYSTEM SYMBOLS

S	15 WATT 8-OHM LOUDSPEAKER WITH BACKBOX MOUNTED IN 1' X 2' LAY-IN CEILING PLATE WITH PERFORATED GRILLE (LOWELL P/N LT-810-BB).
PAM	25 WATT PROGRAMMABLE AMPLIFIER MODULE (PAM) CAPABLE OF POWERING QTY (4) 8-OHM LOUDSPEAKERS (ATLAS VARIZONE P/N V2250).
PS	IN LINE 100-WATT POWER SUPPLY (ATLAS VARIZONE P/N VZ3161).

ALTERNATE #4

ALL EQUIPMENT, DEVICES, CABLING FOR THE FOLLOWING SYSTEMS IS DELETED AS PART OF THIS ALTERNATE. (CONDUIT, BOXES AND PULLWIRE SHALL BE PROVIDED):
CODE BLUE PAGING
ASSISTED LIVING SYSTEM
SURVEILLANCE CAMERA SYSTEM

THE FOLLOWING WORK IS N.I.C.: VOICE / DATA CABLING, JACKS AND DEVICE PLATES.

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4	AMENDMENT #4	8/7/2013

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LICENSED ARCHITECT ARTHUR E. SORDER 4556 STATE OF NEVADA 12/31/2013

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RBB

Drawing Title
Second Floor Telecom Plan - South

Scale
3/16" = 1'-0"

Approved Project Director

Project Title
VA RENO HEALTHCARE SYSTEM COMMUNITY LIVING CENTER EXPANSION

Project No. #1017200
VA Contract No. VA261-P-0933

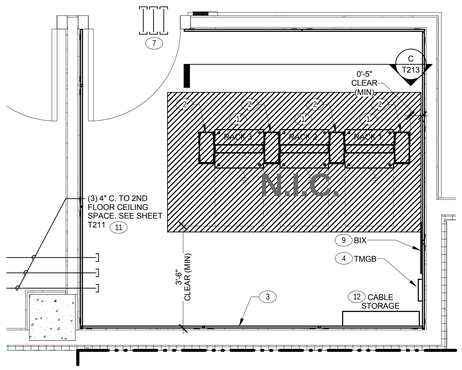
Location
975 KIRMAN AVE., RENO, NEVADA 89502

Date 04/15/2013
Checked KDP
Drawn TPT

VA Project No. 654-317
Building No.
Drawing No. T212

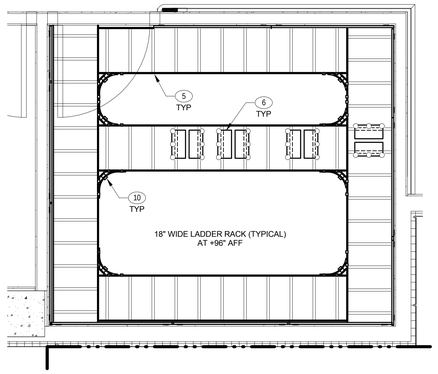
Office of Construction and Facilities Management
Department of Veteran Affairs

BID DOCUMENTS



A T213 TELECOM ROOM RACK LAYOUT

Scale: 1/2" = 1'-0"

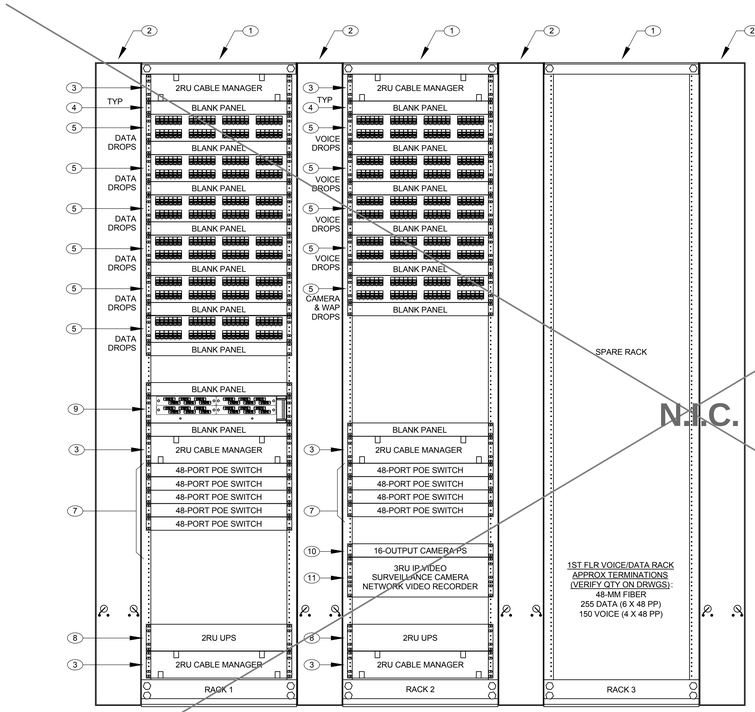


B T213 TELECOM ROOM LADDER RACK LAYOUT

Scale: 1/2" = 1'-0"

TELECOM ROOM SHEET NOTES

1. UL LISTED 2-POST 84" HIGH RACK WITH 19" RACK MOUNTING SPACES (CHATSWORTH ENHANCED RACK P/N 55053-703). PROVIDE RACK GROUNDING KIT (SHATSWORTH P/N 40167-001). INSTALL #6 GREEN INSULATED GROUND WIRE FROM EACH RACK TO THE TELECOM GROUNDING BAR (TGB). BOLT RACKS TO CONCRETE W/ QTY (4) 5/8" ANCHOR BOLTS.
2. 6" WIDE X 7'-0" HIGH VERTICAL CABLE MANAGERS WITH FRONT LOCKING DOORS AND REAR CABLE MANAGEMENT RINGS (CHATWSORTH COMBINATION CABLING SECTION P/N 30162-703).
3. 3/4" FIRE TREATED AC PLYWOOD (TYPICAL FOR ALL WALLS). RUN PLYWOOD SHEETS VERTICALLY FROM 6" AFF TO 8'-6". PAINT PLYWOOD WITH TWO COATS OF WHITE PAINT. MASK FIRE TREATMENT LABELS PRIOR TO PAINTING.
4. UL LISTED 1/4" X 4" X 20" BICSI PATTERNED COPPER TELECOM GROUNDING BUSBAR W/INSULATED STANDOFFS (CHATSWORTH P/N 40158-020). BOND BUSBAR TO THE MAIN ELECTRICAL PANEL SERVING THE FACILITY AND BUILDING STEEL. SEE F/T002 AND GROUNDING RISER B/T003 FOR ADDITIONAL INFO.
5. 18" WIDE HORIZONTAL LADDER RACK AT 96" AFF (CHATSWORTH P/N 11252-718). SECURE LADDER RACK TO WALL WITH MFG'S TRIANGULAR SUPPORT BRACKETS AT 4'-0" O.C. WHERE PLYWOOD DOES NOT EXIST, INSTALL SUPPORT BRACKET FASTENERS INTO METAL STUD FRAMING. SUPPORT LADDER RACK WITH THREADED ROD WHERE SPANS EXCEED 4'-0". BOND ALL SECTIONS OF LADDER RACK TOGETHER WITH BONDING JUMPERS AND BOND TO GROUND BAR W/#6 CONDUCTOR. INSTALL BUTT SPLICES BETWEEN ENDS OF HORIZONTAL LADDER RACK. USE MFG'S CORNER CLAMPS AT PERPENDICULAR INTERSECTION OF LADDER RACK. SEE B/T002 FOR ADDITIONAL DETAILS.
6. PROVIDE QTY (2) CABLE RUNWAY RADIUS DROPS ABOVE EACH VERTICAL CABLE MANAGER TO MAINTAIN CABLE BEND RADIUS (CHATSWORTH P/N 12100-718). COORDINATE LAYOUT OF OVERHEAD LADDER RACK CROSS MEMBERS SO THAT RADIUS DROPS ARE LOCATED DIRECTLY ABOVE VERTICAL CABLE MANAGERS. WHERE CROSS MEMBERS CONFLICT WITH THE VERTICAL CABLE MANAGERS, CUT AND REMOVE CROSS MEMBERS AND REPLACE WITH REMOVABLE CROSS MEMBERS. WHERE RADIUS DROPS ARE CONNECTED TO REMOVABLE CROSS MEMBERS, INSTALL CUSTOM RADIUS DROPS.
7. 4" CONDUIT SLEEVES FOR TELECOM CABLING. PROVIDE QTY OF SLEEVES SO AS NOT TO EXCEED 20% FILL RATE. FIRESTOP SLEEVES AFTER CABLE INSTALLATION.
8. WALL MOUNTED CATV SPLITTERS. SEE C/T003 FOR TYPE AND QUANTITY.
9. 100-PAIR CAT 5E "BIX" 110 BLOCK WALL MOUNT KIT FOR TERMINATION OF BACKBONE VOICE CABLING. PROVIDE 110 WALL MOUNT FRAME KIT FILLED WITH 5-PR CONNECTING BLOCKS, CABLE TROUGHS, PLASTIC LABEL DESIGNATION STRIPS AND CABLE MANAGEMENT RINGS.
10. 15" RADIUS CABLE RUNWAY CORNER BRACKET (CHATSWORTH P/N 11959-715).
11. SEE TELECOM PLAN FOR CONDUITS FROM 1ST FLOOR TELECOM ROOM TO 2ND FLOOR CEILING SPACE.
12. 24" DIAMETER WALL MOUNTED RECLOSABLE STORAGE RINGS FOR BACKBONE FIBER AND COPPER CABLING SLACK STORAGE (LEVITON P/N 48900-FR).

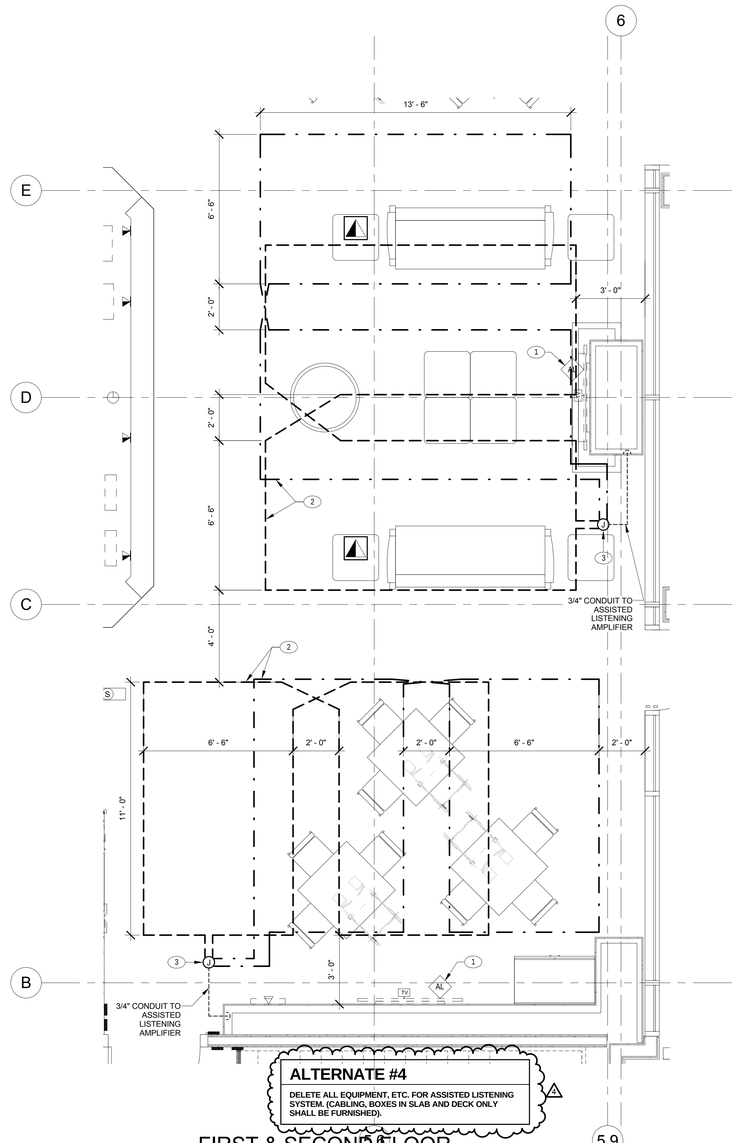


C T213 TELECOM ROOM RACK ELEVATION

N.T.S.

TELECOM RACK SHEET NOTES

1. UL LISTED 19" X 84" 2-POST EQUIPMENT RACK (CHATSWORTH 55053-703). BOLT RACKS TO CONCRETE WITH (4) 5/8" CONCRETE EXPANSION ANCHORS. SECURE TOPS OF RACKS TO LADDER RACK WITH CUSTOM CABLE RUNWAY ELEVATION KIT (CHATSWORTH SK-7387-701). PROVIDE (1) ELEVATION KIT PER RACK. INSTALL #6 GROUND WIRE FROM RACK TO GROUND BAR (PROVIDE A SEPARATE GROUND WIRE FOR EACH RACK). PROVIDE RACK GROUNDING KIT (CHATSWORTH 40167-001) TO ENABLE GROUND LUG ATTACHMENT TO RACK.
2. 6" WIDE X 7'-0" HIGH VERTICAL CABLE MANAGER (CHATSWORTH 30162-703).
3. 2RU 19" WIDE HORIZONTAL CABLE MANAGER (CHATSWORTH P/N 30130-719).
4. 1RU FILLER PANEL (CHATSWORTH P/N 30026-701).
5. 48-PORT CAT 6 DATA/VOICE PATCH PANEL (PANDUIT DP48688TGY) . DRESS HORIZONTAL CABLING TO PATCH PANEL PER MANUFACTURER INSTRUCTIONS USING THE PROVIDED REAR CABLE MANAGEMENT BARBRACKET. SEE E/T002 FOR ADDITIONAL INFORMATION. HORIZONTAL CAT 6 CABLES SHALL BE GROUPED TOGETHER AT THE PATCH PANEL BY ROOM NUMBER. FOR EXAMPLE, THE DATA DROPS SERVING A ROOM SHALL BE TERMINATED IN A CONTIGUOUS NUMERICAL SEQUENCE AT THE PATCH PANEL.
6. NOT USED
7. 1RU 48-PORT POE SWITCHES (BY OWNER).
8. 2RU 2200VA UPS (APC SMART-UPS XL P/N SUA2200RM2U W/MANAGEMENT MODULE AP9630).
9. 48-PORT 2RU FIBER TERMINATION CABINET (CORNING PCH-02U). PROVIDE QTY OF 12F MM DUPLEX LC ADAPTER STRIPS WITH FACTORY INSTALLED PIGTAILS TO TERMINATE ALL BACKBONE MM FIBER. INSTALL BLANK PLATES OVER UNUSED OPENINGS. SEE SPECS FOR FIBER TERMINATION CABINET REQUIREMENTS.
10. 1RU RACK MOUNTED 16 OUTPUT 120VAC TO 24VAC POWER SUPPLY FOR EXTERIOR PTZ CAMERAS (ALTRONIX VERTILINE 166 OR APPROVED EQUAL). SEE D/T004.
11. 3RU NVR FOR VIDEO SURVEILLANCE CAMERAS (SEE IP VIDEO SURVEILLANCE CAMERA SCHEDULES ON A/T004 FOR PART NUMBERS AND ADDITIONAL REQUIREMENTS).



D T213 FIRST & SECOND FLOOR INDUCTION LOOP ROUTING ASSISTED LISTENING SYSTEM

Scale: 3/8" = 1'-0"

INDUCTION LOOP AMPLIFIER SHEET NOTES

1. ASSISTED LISTENING "LOW-SPILLOVER" INDUCTION LOOP AMPLIFIER (CONTACTA SYSTEMS SECURET). PLUG AMPLIFIER INTO OUTLET AT TV. CONNECT AUDIO CABLES FROM AMPLIFIER TO TV.
2. QTY (2) 18 AWG INDUCTION LOOPS FOR ASSISTED LISTENING SYSTEM. LOOP SIZE AND LAYOUT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS (CONTACTA INC.). AT THE FIRST FLOOR, SCORE CONCRETE FLOOR APPROXIMATELY 1/4" WIDE BY BY 1/2" DEEP FOR INSTALLATION OF INDUCTION LOOPS. SEAL LOOPS INTO FLOOR WITH CONCRETE SEALING COMPOUND. AT THE SECOND FLOOR, INSTALL "FLAT" 18 AWG CABLE ON TOP OF THE CONCRETE FLOOR PRIOR TO THE INSTALLATION OF FLOOR FINISHES (CARPET). **(CONCRETE SCORING ON FIRST FLOOR IS PART ALTERNATE #4).**
3. FLOOR BOX WITH 3/4" CONDUIT TO TV LOCATION FOR ROUTING OF INDUCTION LOOP CABLE. INSTALL INDUCTION LOOP CABLE TO WALL MOUNTED AMPLIFIER AND TERMINATE PER MANUFACTURER'S REQUIREMENTS.

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4	AMENDMENT #4	8/7/2013

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95814
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Facsimile 310 473 3555
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RBB

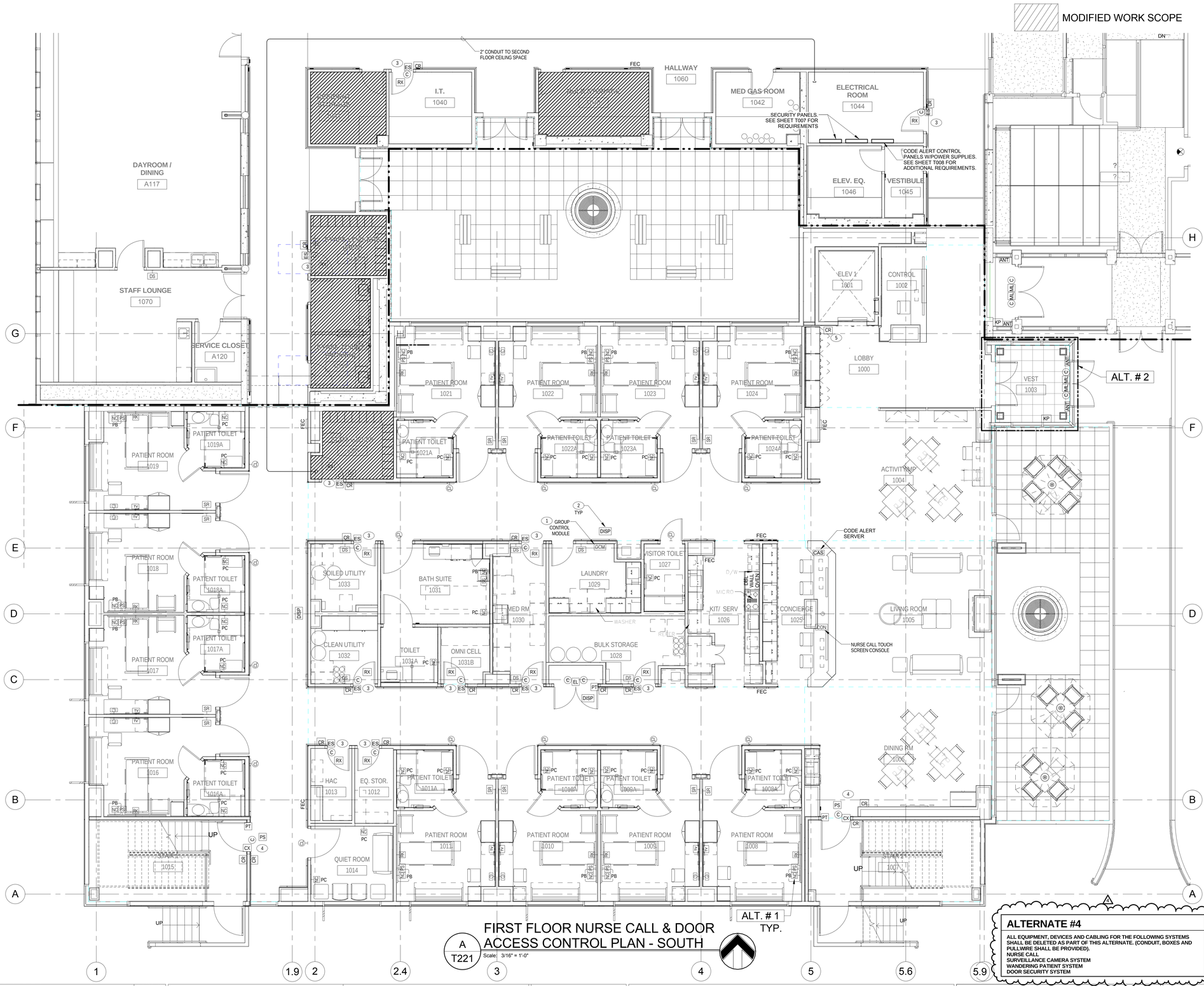
Drawing Title: Enlarged Telecom Rooms & Rack Elevations
Scale: As indicated
Approved Project Director

Project Title: VA RENO HEALTHCARE SYSTEM COMMUNITY LIVING CENTER EXPANSION
Project No. #1017200
VA Contract No. VA261-P-0933
Location: 975 KIRMAN AVE., RENO, NEVADA 89502
Date 04/15/2013
Checked KDP
Drawn TPT

VA Project No. 654-317
Building No.
Drawing No. T213

Office of Construction and Facilities Management
Department of Veteran Affairs

BID DOCUMENTS



SHEET NOTES

1. FLUSH WALL MOUNTED NURSE CALL CONTROL PANEL REQUIRES 6" DEEP WALL. COORDINATE WITH ARCHITECT.
2. CEILING MOUNTED DUAL-SIDED DISPLAY. SEE D/T008 FOR ROUGH-IN REQUIREMENTS.
3. SEE B/T007 TYPICAL CONDUIT ROUGH-IN AT DOOR.
4. SEE D/T007 TYPICAL CONDUIT ROUGH-IN AT DOOR.
5. CARD READER FOR ELEVATOR CALL BUTTON.

NURSE CALL GENERAL NOTES

1. COORDINATE NURSE CALL DEVICE MOUNTING LOCATIONS WITH DEVICES AND EQUIPMENT PROVIDED BY OTHER TRADES. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF DEVICES AND EQUIPMENT
2. ALL NURSE CALL CABLING TO BE ROUTED IN CONDUIT. THE ENTIRE NURSE CALL SYSTEM TO BE BONDED AND GROUNDED.
3. SEE NURSE CALL ONELINE DIAGRAM B/T006 FOR ADDITIONAL REQUIREMENTS.

NURSE CALL LEGEND

CL	6-LED CORRIDOR LIGHT WALL MOUNTED +96" AFF (UON) WITH 4 11/16" DEEP BOX W/2-GANG RING. RAULAND NCLED6.
DS	DUTY STATION WALL MOUNTED +54" AFF (UON) W/3-GANG BOX. RAULAND NCDUTY.
SS	STAFF STATION WALL MOUNTED +54" AFF (UON) W/3-GANG BOX. RAULAND NCSTAFF.
SR	STAFF REGISTRATION STATION +54" AFF (UON) W/4S BOX W/SINGLE GANG RING (RAULAND NCSRS3).
NC PC	NURSE CALL PULLCORD STATION +46" AFF (UON) W/4S BOX W/SINGLE GANG RING (RAULAND NCPCS1). PROVIDE PULLCORD THAT EXTENDS WITHIN 2" OF THE FLOOR.
NC PB	NURSE CALL DUAL PUSHBUTTON (CODE BLUE / STAFF ASSIST) CODE BLUE STATION +54" AFF (UON) W/4S BOX W/SINGLE GANG RING. RAULAND NCDPB2.
RK	37-PIN FEATURE BED RECEPTACLE +24" AFF (UON) W/4S BOX W/SINGLE GANG RING (RAULAND NCBED). PROVIDE 8'-0" FEATURE BED CABLE (RAULAND NCC37RA).
PS	SINGLE PATIENT STATION WITH SPEAKER/MICROPHONE, PILLOW SPEAKER RECEPTACLE, CALL CORD AND LED W/3-GANG RING (RAULAND NCBSS1). PROVIDE (1) PILLOW SPEAKER AT EACH STATION (CURBELL GEN 4).
CON	TOUCHSCREEN CONSOLE MOUNTED ON DESK. (RAULAND NCTSM).
GCM	GROUP CONTROL MODULE. INCLUDES 30"W X 30"H X 6" DEEP FLUSH WALL MOUNTED CABINET, NURSE CALL CONTROLLER, POWER SUPPLY AND BATTERY BACKUP. (RAULAND NC2828, NCGCM, NCPWR, NCBBK).

WANDERING SYSTEM GENERAL NOTES

1. SEE A/T008 FOR WANDERING PATIENT SYSTEM ONELINE WIRING DIAGRAM.
2. SEE C/T008 FOR TYPICAL CONDUIT ROUGH-IN AT EACH DOOR.

WANDERING SYSTEM SYMBOL LIST

	CODE ALERT WANDERING SYSTEM PANEL
DISP	DOUBLE SIDED QUICK LOOK DISPLAY
CAS	CODE ALERT SERVER
CAPC	CODE ALERT PC
ANT	DUO-LINK ANTENNA
KP	EXIT ALARM CONTROLLER WITH KEYPAD
ML	MAGNETIC LOCK
PB	PUSH BUTTON MANUAL LOCK RELEASE
C	DOOR POSITION CONTACT

DOOR ACCESS CONTROL GENERAL NOTES

1. SEE A/T007 DOOR SECURITY ONELINE DIAGRAM
2. SEE B/T007 FOR ROUGH-IN REQUIREMENTS AT EACH DOOR.
3. SEE ARCHITECTURAL DRAWINGS AND DOOR HARDWARE SCHEDULE.
4. ALL SECURITY CABLE IS TO BE ROUTED IN CONDUIT TO SECURITY PANELS LOCATED IN ELECTRIC ROOM 1044.

DOOR SECURITY SYMBOL LIST

CR	PROX CARD READER
LA	LOCAL ALARM
C	MAGNETIC DOOR CONTACT
RX	REQUEST TO EXIT
ES	ELECTRIC STRIKE
PB	DOOR RELEASE PUSH BUTTON (BUZZER)
EL	ELECTRIC LOCK
PT	POWER TRANSFER HINGE
CX	VON DUPRIN "CHEXIT" DELAYED EGRESS ELECTRIFIED PANIC HARDWARE
PS	POWER SUPPLY FOR ELECTRIFIED EGRESS HARDWARE

FIRST FLOOR NURSE CALL & DOOR ACCESS CONTROL PLAN - SOUTH

A / T221

Scale: 3/16" = 1'-0"

ALTERNATE #4

ALL EQUIPMENT, DEVICES AND CABLING FOR THE FOLLOWING SYSTEMS SHALL BE DELETED AS PART OF THIS ALTERNATE. (CONDUIT, BOXES AND PULLWIRE SHALL BE PROVIDED).
NURSE CALL
SURVEILLANCE CAMERA SYSTEM
WANDERING PATIENT SYSTEM
DOOR SECURITY SYSTEM

4	AMENDMENT #4	8/7/2013

Consultants

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LICENSED PROFESSIONAL ENGINEER — KARA B. PURCELL — ELECTRICAL — No.11513 — STATE OF NEVADA — 12/31/13 — 4/10/13

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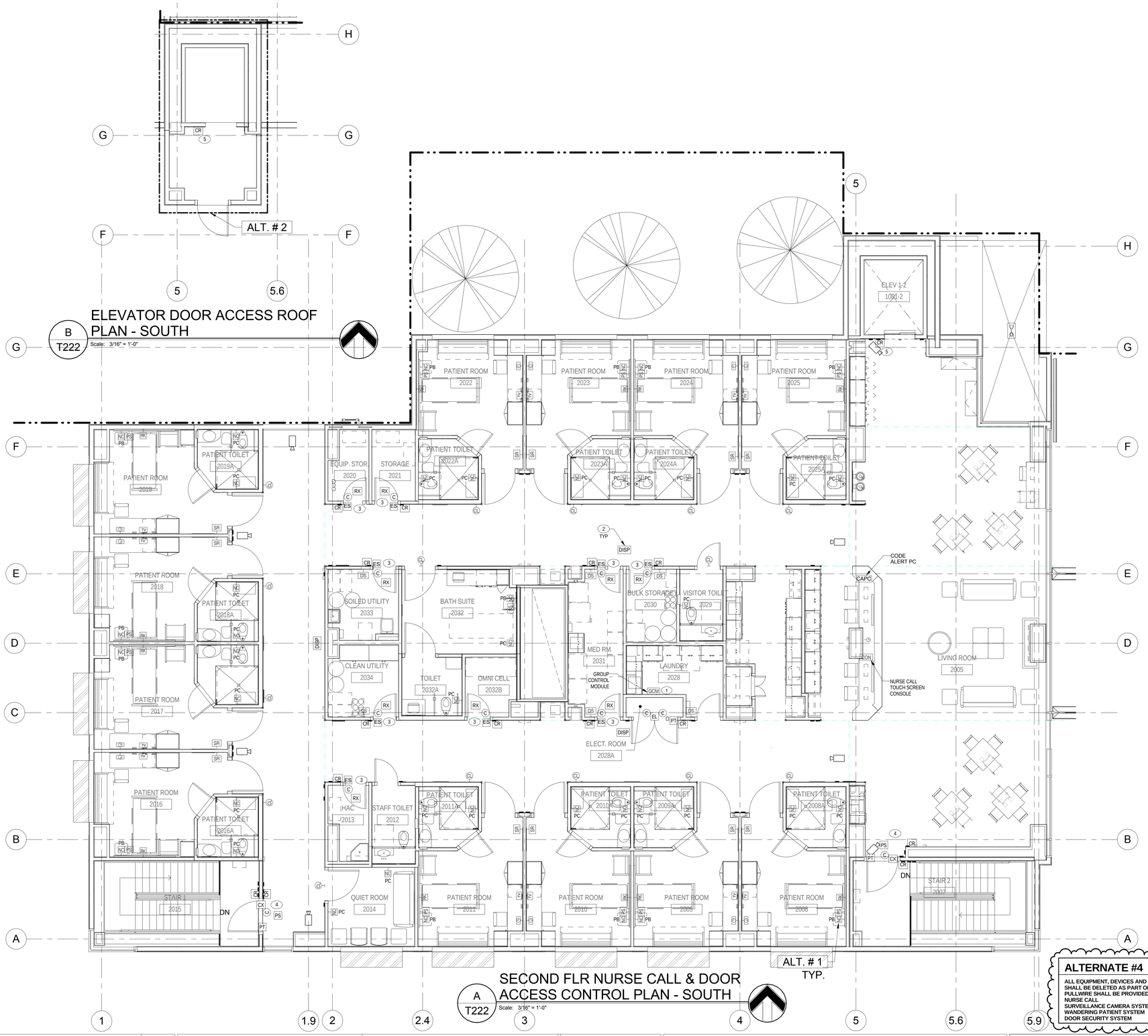
Drawing Title	First Floor Nurse Call & Door Access Control Plan
Scale	3/16" = 1'-0"
Approved Project Director	
Project Title	VA RENO HEALTHCARE SYSTEM COMMUNITY LIVING CENTER EXPANSION
Project No.	#1017200
VA Contract No.	VA261-P-0933
Location	975 KIRMAN AVE., RENO, NEVADA 89502
Date	04/15/2013
Checked	KDP
Drawn	TPT
VA Project No.	654-317
Building No.	
Drawing No.	T221

Office of Construction and Facilities Management
Department of Veteran Affairs

BID DOCUMENTS

three inches = one foot 6" 1
one and one half inch = one foot 0 6" 2
one inch = one foot 0 6" 0
three quarters inch = one foot 0 6" 0
one half inch = one foot 0 4
three eighths inch = one foot 0 4
one quarter inch = one foot 0 8
one eighth inch = one foot 0 4 8 16



SHEET NOTES

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2. CEILING MOUNTED DUAL-SIDED DISPLAY. SEE D/T008 FOR ROUGH-IN REQUIREMENTS.
3. SEE B/T007 TYPICAL CONDUIT ROUGH-IN AT DOOR.
4. SEE D/T007 TYPICAL CONDUIT ROUGH-IN AT DOOR.
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PB	PUSH BUTTON MANUAL LOCK RELEASE
C	DOOR POSITION CONTACT

DOOR ACCESS CONTROL GENERAL NOTES

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4	AMENDMENT #4	8/7/2013

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Drawing Title: Second Floor Nurse Call & Door Access Control Plan
Scale: 3/16" = 1'-0"
Approved Project Director

Project Title: VA RENO HEALTHCARE SYSTEM COMMUNITY LIVING CENTER EXPANSION
Project No. #1017200
VA Contract No. VA261-P-0933
Location: 975 KIRMAN AVE., RENO, NEVADA 89502
Date: 04/15/2013
Checked: KDP
Drawn: TPT

VA Project No. 654-317
Building No.
Drawing No. T222

Office of Construction and Facilities Management
Department of Veteran Affairs

BID DOCUMENTS

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